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[Jamaica weather report]

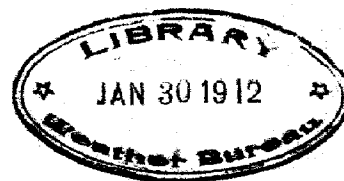
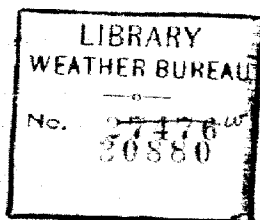
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VOL. IV.

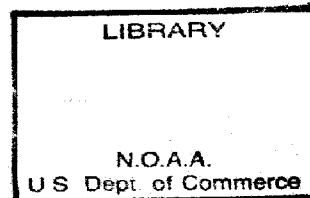
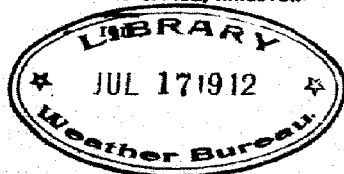
CONTAINING REPORTS NOS. 278 TO 357

FROM

MARCH 1902, TO DECEMBER 1910, INCLUSIVE.



JAMAICA
GOVERNMENT PRINTING OFFICE, KINGSTON.



QC
987
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W34
1902
[Mar-Dec.]

National Oceanic and Atmospheric Administration

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ERRATA.

- Vol. I. W.R. No. 31. Table F., 1870. The Island. For 89.44 read 89.43.
- " No. 67, p. 3. Below Comparative Table read "The largest fall, namely 50.90, was recorded at Farm Pln."
- " No. 88, p. 3. Windsor Pen. For 5.38 read 9.38.
- Vol. II. Index. Lightning, protection from, for No. 163 read No. 136. Plumb Pt. L. H., for 191 read 134.
- Introduction, p. 8. 1770; third line from the bottom: for morning read evening; and delete lines 17, 18, and 19 on p. 9.
- W.R. No. 111, p. 4. top line. For Sept. read Oct.
- " No. 113, p. 4. Instead of tables of Island Rainfall there given, 1870 to 1889, use those in W.R. No. 124 (A).
- " No. 123, p. 3: 1888: The Island Rainfall: April: for 3.62 read 3.61; June: for 6.27 read 6.77; and in Errata Vol. II. delete correction there given, and substitute this.
- " No. 124 (A), p. 9. Up-Park Camp: Oct. for 13.0 read 13.80.
- " No. 149, pp. 4 and 5: Southern: Total: for 44.45 read 44.41; and means for 1890, for 64.44 read 64.42.
- " No. 158, p. 5: Means for 1892: May: for 8.52 read 8.53; Oct. for 12.16 read 12.17; and year: for 72.98 read 73.00; and make same corrections in W.R. 240 (A), p. 5, and in W.R. 243, p. 5.
- " No. 193, p. 4. For Strato-cirrus read Strato-cirrus.
- " No. 194, p. 3. For New Galloway P. W. D. read Whithorn P. W. D.
- Vol. III. W.R. No. 239, p. 4. Blue Mt. Peak: for April 1, read May 1.
- " No. 240 (A), p. 4: top line: for 1867 read 1897.
- " No. 243, p. 5: Comparative Table: Means for 1898: Jan. for 1.75 read 1.75; Feb. for 3.94 read 3.93; Year, for 73.84 read 73.82.
- " No. 250, p. 3. Kempshot: for 8.27 read 6.77.
- " 251, " " " 8.16 " 5.16.
- " 252, " " " 4.23 " 2.78.
- " 253, " " " 12.16 " 7.66.
- " No. 252, p. 1. Negril Pt., Dew-point, 3 p.m. for 80.0 read 70.0.
- " No. 253, p. 4. Com. Table: Means: for 5.66 read 5.67.
- " 256 (A), 33. Drax Hall: Year: 63.05.
- " 45. Braco " 44.63.
- " 47. Harmony Hall, " 43.13.
- " 142. Fontabelle " 79.21.
- " 156. Hope Gard. " 54.28.
- " 167. Hog Hole " 52.35.
- W.R. No. 258, p. 4. Date of report, for Aug. read Sept.
- " No. 272, p. 1. Negril Pt., Bar. 3 p.m. for 29.975 read 29.795.
- " No. 274, p. 1. Stony Hill: Temp. 3 p.m. for 67.3 read 77.3.
- " No. 276, p. 1. Negril Pt., M. Clouds, 3 p.m. for 1.6 read 3.8.
- Vol. IV. No. 279, p. 1. Negril Pt., Dew-point 7 a.m. for 65.8 read 68.5.
- " No. 280, p. 1. Kempshot. Bar. 3 p.m. for 29.784 read 29.877.
- " No. 281, p. 1. Kempshot. Rainfall. For 14.09 read 14.19.
- " Stony Hill. Extr. temp. read 88 on 14th, and range 24. p. 4. for Rainfall for May read Rainfall for June.
- " No. 286, p. 3. For rainfall at Mears read rainfall for Cave Valley.
- " No. 287, p. 4. Rainfall over the Island. For 1901 read 1902.
- " No. 302, p. 4. Mean Island Rainfall. For 6.68 read 6.84.
- " No. 303, p. 2. Quebec. For 5.61 read 6.11.
- " No. 311, p. 4. Rainfall over the Island, March for 6.68 read 6.84.
- " Total: for 87.99 read 88.15.
- " No. 316, p. 4. Island Rainfall: Means: for 5.70 read 8.20.
- " No. 323, p. 4. Rainfall over the Island. May: for 5.70 read 8.20.
- " Total: for 82.71 read 85.20.
- " No. 328, p. 2. Drax Hall. For 2.85 read 7.40; and for 1.25 read 4.60.
- W.R. No. 332, p. 3. Plumb Pt. L. H. Delete rainfall given. There was no record kept.
- " No. 343, p. 2 and 3. Hardware Gap, Bull Bay, and Gordon Town; the rainfall given for these places are for June.
- " No. 345, p. 1. Negril Pt. Wind 7 a.m. For SE read E.
- " No. 360, p. 1. Morant Pt. Bar. 3 p.m. For 29.992 read 29.892. Range. For 14.5 read 16.6. Hope Gardens. Delete min. readings for Oct., Nov. and Dec.
- " No. 361, p. 2. Southfield. For 2.95 read 7.95.
- " No. 368, p. 3. Means: for 5.75 read 3.40: p. 4 Northern; for 5.75 read 3.40.
- " Total: for 6.10 read 5.52.
- " No. 370, p. 4. The Island. For 15.66 read 15.96.
- " No. 375, p. 5. Bar. 3 p.m. July. For 29.641 read 29.964. Means 3 p.m. For 29.889 read 29.917.
- " No. 377, p. 1. Kingston. Bar. 3 p.m. For 29.954 read 29.916.

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INTRODUCTION.

RE-ESTABLISHMENT OF THE WEATHER SERVICE.

In 1898 the United States Weather Bureau established a first class station at Halfway Tree, near Kingston, as a part of their service in the West Indies and South America. All their stations reported more or less continuously to Washington, and storm-warnings were issued from Washington which were of great service to the whole of the West Indies.

The Jamaica Weather Service was disestablished at the end of the financial year, but an annual grant of £50 was made to continue the Weather Reports. This grant was stopped in March, 1902, and the publication of the Weather Reports was transferred to the Office of the Island Chemist.

In July, 1907, the Jamaica Weather Service was re-established; the United States Weather Bureau having closed their station at Halfway Tree now undertook to establish a first class station at the Public Works Office, Kingston, upon the understanding that the observer would supply them with cablegrams during the hurricane months. Mr. J. F. Brennan of the Public Works Department was appointed as observer in Kingston at £50 a year; and Mr. Maxwell Hall had charge of the whole at £100 a year.

The new service commenced under very different auspices; not only had rainfall maps been published, but in 1904 the more important results of observation as detailed in the Weather Reports which were issued monthly between 1881 and 1902, and which form Vols. I, II, and III of the *Jamaica Meteorological Observations*, were published in the form of a small pamphlet by the Institute of Jamaica; and the following were the stations:—

First class station	...	Kingston
Second Class Stations	{	Morant Pt. Light House Negril Pt. Light House
Climatological Stations	{	Castleton Gardens Hope Gardens Stony Hill Reformatory Hill Gardens.

NOTES ON THE STORMS WHICH PASSED OVER OR NEAR JAMAICA BETWEEN 1902 AND 1910 INCLUSIVE.

After the transfer of the Weather Reports to the office of the Island Chemist in 1902 no notes were made of such storms as passed over or near Jamaica; and when the Weather Service was re-established in 1907, it seemed a pity that the record should have been thus broken; and the following notes have been compiled from various sources.

1902 The only storm this year which affected the barometer in Jamaica passed over San Domingo on Nov. 1st. The fall of the bar. at Kempshot was little more than a tenth of an inch below the mean.

1903 August 11th. A full account of this important storm was published in the U. S. Monthly Weather Review for Sept., 1905; and two small charts showed the course of the storm through the West Indies, and over Jamaica, respectively. A few notes are here extracted from that account:—

The first intimations we had in Jamaica of this great storm came from the Weather Bureau at Washington, and the following notices were posted in Kingston by the local branch of that Bureau:—

August 8. 11.30 a.m.—Washington Weather Bureau notifies evidence of a disturbance ESE. of Barbados, moving N. of W.

August 8. 4 p.m.—Central Bureau, Washington, notifies that the disturbances E. of Barbados will move NW. over the Windward Islands. It is probably of dangerous strength.

August 10, 4.15 p.m.—The following has been received from the Central Bureau in Washington: Disturbance apparent; marked strength; moving N. of W. over or near Santo Domingo. Reports from Santo Domingo missing.

But as a matter of fact the hurricane moved in straight line from Martinique to Jamaica, and then over Cayman Islands and Yucatan to the coast of Mexico where it disappeared.

Now the distance from Martinique to Kingston, Jamaica, is about 1095 miles; the distance from Kingston to Montego Bay is 83 miles; the distance from Montego Bay to Grand Cayman Island is 238 miles. As the centre passed over Montego Bay at 9.30 a.m. we have the following velocities of the centre along its course: from Martinique to Kingston, twenty miles an hour; from Kingston to Montego Bay, twenty-one miles an hour; and from Montego Bay to Grand Cayman Island, nineteen miles an hour. Hence we shall assume that the centre proceeded from Martinique to Grand Cayman Island at a uniform velocity of twenty miles an hour.

From the backing of the wind at Richings and at Vale Royal, in Lower St. Andrew, it appears that the centre must have passed a little north of these places; also a little north of Linstead, Chapelton, and Christiana, south of Llandoverly, but central over Brandon Hill, Montego Bay. A straight line from near the Morant Point light-house to Montego Bay satisfies these conditions.

From the observations made at Brandon Hill it appears that the worst part of the storm lasted for two hours, from 8 to 10 a.m., and hence the computed diameter of the destructive area of the hurricane was not more than 40 miles. If, therefore, we draw two lines on the chart parallel to the course of the centre, twenty miles north and south of the course respectively, the area of destruction will be bounded by these lines.

We now see why the south coast of Jamaica from Old Harbour to Savanna-la-Mar, did not suffer; it was outside the limit.

Again, Montego Bay was fairly sheltered from the northerly and southerly winds, so that the town was not injured; and Lucea was sheltered from the north-westerly and southerly winds and also escaped; but all along the north coast from Manchioneal to Falmouth, the wind was tremendous, and there was considerable loss of life among the falling trees and houses. In many low-lying places the wind drove the sea ashore; and there is reason to suppose that had the centre been moving slowly instead of at the high rate of twenty miles an hour, there would have been appalling loss of life from the invading sea; an enormous amount of damage done within the storm area; all the large plantations of cocoa palms along the north side and at the east end were destroyed; all banana cultivations, wherever situated, were ruined for a time; and throughout the length and breadth of the island a large proportion of fruit, pimento, and coffee trees were damaged or destroyed.

1904 June 11th to 14th. On the 11th the bar. began to fall at Kempshot, and it reached its lowest 29.634 at 7 a.m. on the 13th, when the wind blew a gale of 60 miles an hour from the south. It appears that there were two centres, one about 49 miles SW. of the Negril Pt. L.H., and the other about 20 miles NW. of Kempshot.

The latter moved straight towards Santiago de Cuba, and increasing in strength, it did a great deal of damage to that town.

Between the 8th and the 13th heavy rains fell in the valley of the Montego Bay river; the river came down in full flood on the 13th, and carried away the large handsome, mason-work bridge of five wide-spanned arches near Montego Bay.

An account was given in the U.S. Monthly Weather Review for August showing how the parallelogram of velocities applied to the wind at the two stations, Kempshot and Negril, as affected by the two centres.

1904 Sept. 3rd. A storm centre appeared west of Dominica; and on the 5th it was south-east of San Domingo. The next day the following telegram was sent round the Island by the Post Office authorities:—Washington Weather Bureau reports tropical disturbance apparently south of San Domingo moving west with increased intensity. Advise all necessary precaution to be promptly taken."

There was considerable alarm in Kingston and elsewhere; but as a matter of fact the storm-centre had turned north on the 5th while a small secondary passed south of Jamaica on a westerly course. There was no wind, and the bar. fell only a tenth of an inch below the mean.

Sept. 29th. Early that morning a considerable depression passed the west end of Jamaica on a WNW. course; and a telegram from Kempshot was sent to the Colonial Secretary to this effect in reply to a telegram asking for information.

The ss. "Siberia" arrived in Kingston that afternoon having passed through the cyclone.

1904 Oct. 9th to 16th. On the morning of the 9th the bar. began to fall, but it did not reach its lowest 29.605 until 2 p.m. on the 14th. The weather was very dull and oppressive the whole time, and the sky was covered with clouds without motion. It appeared that Jamaica was between two centres; one was that of large cyclone which passed south of Jamaica on a WNW. course; and increasing in intensity in the Gulf of Mexico it did a

great deal of damage. The other centre was of a much smaller cyclone, and it was off the north-west end of Jamaica at 4 p.m. on the 14th; it apparently moved north, when the wind at Kempshot sprang up from the SSW.

1905 Sept. 30th to Oct. 7th— On the 30th September the bar. was slowly falling and rain fell over Jamaica: there was little or no wind, and the upper-drift was from the NW.

On the 1st Oct. the bar. continued to fall: at Kempshot showers came up from the SW, with an upper drift from the N; and during the day the wind backed as far as S. Heavy rains fell over Jamaica.

Early in the morning of the 2nd Oct. the wind at Kempshot increased in force from the S until it reached about 30 miles an hour*: there was much rain; and the bar. fell to 29.74 which was about 0.14 below the mean. It was now apparent that a small cyclone was developing to the north-west of Kempshot, and telegrams to this effect were sent to Kingston and to Cuba.

In the afternoon the rains stopped, the bar. rose, and the wind backed as far as ESE; this seem to show that the cyclone had moved away westward; but clouds still covered the sky.

On the 3rd Oct. the bar. again fell: the wind was E, and there was much cloud also from the E. The fall of the bar. was quite intelligible on the supposition that the cyclone was developing; but the sky should have cleared.

On the 4th Oct. the fall continued, the wind from the E with rain increased up to 20 miles an hour. On both the 3rd and 4th the bar. at Kingston was a little higher than at Kempshot.

At 7 a.m. Oct. 5th the bar. read its lowest, 29.63, or 0.25 below the mean; and as the wind and lower clouds were from the NE it appeared that a depression was generating to the south of Jamaica, and telegrams to this effect were sent to Kingston and to Cuba.

At 3 p.m. a great deal of cirrus in the form of threads was poured out from the SSE.

On the 6th Oct. the bar. was low and steady; at Kempshot the wind and lower cloud drift were NW, at Kingston they were W, the bar. being the same at the two places; consequently the centre of the depression was now north of Jamaica, somewhere between Morant Point and Santiago de Cuba, and the bulk of the depression must have passed over Jamaica during the night.

On the 7th Oct. the bar. rose with the wind and lower clouds from the W, so that the depression must have proceeded on its northward course.

It thus appears that between the 30th Sept. and the 6th Oct. the wind had backed round the whole compass; and it would appear that the first cyclonic depression instead of continuing to move westward must have worked round the west end of Jamaica to the south or south-east of Jamaica, and then proceeded northwards; and the Weather Bulletin issued from Washington show that this was the case.

1906 The hurricane season opened with a remarkable squall which passed over Jamaica Aug. 8th, 4 to 5.30 p.m. and blew down a number of banana trees; the wind was SE., and the bar. 29.91, a little below the mean. Nothing more was heard of it.

1906 On Sept. 1st a cyclone passed near Antigua on a NW. course; it passed N of Turks Island and the Bahamas; turned sharply on its course, and reached the Banks of Newfoundland on the 10th and 11th, and finally it passed N. of Scotland on the 15th. Our lowest bar. in Jamaica was 29.76, Sept. 4th, noon.

1906 Sept. 13th to 17th. On the 13th and 14th there were indications of disturbance in the Windward passage; the centre moved N. and then re-curved NW. instead of NE. It did some damage to the shipping between Charleston and Wilmington. Jamaica was hardly affected.

1906 Sept. 18th to 27th. On the 19th and 20th a small depression passed on a westerly course S. of Jamaica; on the 24th it passed into the Gulf; it now developed into a tremendous cyclone, which turned N.; it damaged New Orleans, and devastated Pensacola, and Mobile.

After the small depression passed Jamaica there was a slight rise in the bar., then it fell again as the cyclone developed, and it reached its lowest, 29.77, on the 28th when the cyclone was at Pensacola and Mobile. At 5.30 a.m. the bar. at the latter place was 27.84, and the wind was blowing from 80 to 90 miles an hour.

A full account of these three hurricanes was given by Prof. Garriott in the U.S. Monthly Weather Review for Sept.

1906 Oct. 14th to 19th. On the 14th a depression passed N. of Jamaica on a westerly course. It developed, passed over Havana on the night of the 17th and 18th, and then took a NE. course over the Florida channel.

Nov. 2nd to 9th. On the 2nd it became apparent in Jamaica that a cyclone was generating over the Cayman Island, and as it often happens, it remained stationary there

* The strongest gust was 8lb. on the pressure plate, or 50 miles an hour.

thereby disturbing the storm warnings in Havana. However, it moved on the 7th and crossed Central Cuba, where wind and flood did some damage.

1907 No storms or depressions passed near Jamaica this year.

1908 Sept. 10th. The U. S. Weather Bureau reported a disturbance north of Porto Rico moving north; and the bar. began to fall slowly in Jamaica, showing that it was a serious storm. But instead of going north it went WNW., and passed over Turks Island, Sept. 11th, 4 a.m., doing a great deal of damage. It apparently proceeded westward to the Bahamas until it was 200 or 300 miles north of Jamaica on the 12th, lowering our bar. pressure and driving up the wind from the SW. But a small secondary appeared NE. of Jamaica and confused all the indications.

The great storm then curved on its course followed the Gulf Stream, brushed past Bermuda and was encountered by all the "liners" between Europe and New York.

The secondary passed Jamaica on the 13th and did some damage at the east end of Cuba on the 14th.

1908 Sept. 24th. The U. S. Weather Bureau reported a disturbance in latitude 15° east of the Windward Islands moving westward; on the 25th at 1 p.m. it was south of St. Kitts moving WNW., but as it did little or no damage, it had not yet developed, and the bar. in Jamaica was not affected.

On the 26th the disturbance was near and south of Porto Rico, and the bar. in Jamaica began to fall. On the 27th the disturbance was near and south of San Domingo; and it was now clear that its course was nearer W. than WNW., and Jamaica was threatened. Warnings were now added to the local telegraphic circulars; but as the fall of the bar. had stopped at Kempshot it was clear that the storm was beginning to turn north on its course, and that it would cross Hayti.

On the 28th there was no further fall of the bar. in Jamaica; and a circular was issued from Kingston, "hurricane appears now curving north and away from Jamaica," which was confirmed later on by the U.S. Weather Bureau. It was afterwards known that the hurricane swept over Port-au-Prince this day, causing heavy damage. The bar. there fell to 29.21 at 7 p.m., and an earthquake shock was felt which was followed by a long series of earth tremors.

On the 29th the centre was at Cape Maysi, and on the 30th and Oct. 1st the hurricane swept over the Bahamas exactly as the former one had done 18 or 19 days previously.

On the 29th a secondary appeared to the SE. of Jamaica; our winds were all N, and at Negril Point the wind was 30 miles an hour from that direction.

A circular was issued to this effect; another was issued early on the 30th saying it had passed Jamaica; and then the winds got round to W. and SW. It appears to have curved round the west end of Jamaica, nearly wrecked the schooner "Defender" from Cayman Brac to Santiago, and caused much bad weather in Cuba.

1908 Oct. 14th. On this day the sloop "Canary" ran into a hurricane 90 miles NE of Colon; on the 16th the s.s. "Oracabessa" met the hurricane between Grey Town and Cape Gracias; the storm did great damage all along the Nicaraguan coast and then apparently died out. It hardly affected the bar. and wind in Jamaica.

1909 July 16th and 17th. The hurricane season commenced early this year; a cyclone generated west of Jamaica, developed on its NW. course, and did a great deal of damage to Galveston and other towns in Texas on July 21st and 22nd. A full account of the secondaries which affected Jamaica was sent to the Press Aug. 7th.

1909 July 30th. The U. S. Weather Bureau reported a disturbance S. of Jamaica; but local observations showed no cause for alarm, and a circular was issued to that effect on August 1st.

1909 Aug. 18th to 20th. The U. S. Weather Bureau reported a disturbance SE. of St. Kitts; it moved in a WNW. direction: it passed over the island of San Domingo on the 20th and apparently died out.

1909 Aug. 22nd to 24th. The U. S. Weather Bureau reported a hurricane near Porto Rico on the 22nd moving westward; and this agrees with the observations made at the stations of the Belen Observatory, Havana, which showed that the hurricane was E. of Martinique on the 21st, 7 a.m.; S. of S. Thomas on the 22nd; at Mole, St. Nicholas, the NW. point of Hayti, on the 23rd; and during that day it passed over Baracoa and all along the S. and S.W. coast of Cuba, reaching Havana with diminished force about noon on the 24th.

We must now go back to the morning of the 23rd, in Jamaica; between 4 and 7 a.m. the bar. was falling rapidly at Chapelton; and a local circular storm-warning was issued at the latter hour. The fall, however, stopped after 7 a.m. and it was assumed that the storm threatening Jamaica had moved N. or NW. At 11 a.m. the U. S. Weather Bureau reported a hurricane S. of Hayti moving W. or N. of W. This clearly referred to a prior state of affairs; and an afternoon local circular relieved all alarm by placing the centre of the storm between Jamaica and Cape Maysi. At this time and place the centre was actually encountered by the s.s. *Amelia* of the United Fruit Company as reported in the *Telegraph* of the 25th.

But this centre encountered the former one which passed from Hayti to Cuba, as already described, and it swerved on its course so as to pass round Jamaica, and to sweep over the Cayman Islands on the night of the 24th; and the last known of it was its passage through the channel of Yucatan on the 26th.

This is by no means the first time that one centre has been known to avoid another; but taking all things into consideration, the passage of the southern cyclone round Jamaica is the most extraordinary circumstance in our meteorological records.

1909 Sep. 11. The United States Weather Bureau reported a depression south of San Domingo moving W. or N. of W.; but local observations showed no cause for alarm, and a circular was issued to that effect on the 13th.

Sept. 13th and 14th. After the issue of that local circular the U. S. Weather Bureau reported a disturbance E. or S. E. of Jamaica. The bar. pressure remained low and steady, and it appeared that the centre was following the same course as the southern centre on August 23rd. This was confirmed by the report from the U. S. Weather Bureau on the 14th to the effect that the cyclone was between Jamaica and Cuba moving N. of W. It passed N. of the Kempshot Observatory at 1 a.m. on the 15th and it passed S. of the Cayman Islands on 15th or 16th, where the schooner "Bartholdi" encountered a full hurricane.

The cause of the curvature of the path of this cyclone was the same as on the former occasion; on the 13th and 14th the s.s. "Matina" passed through two storms on her way from Turks Island to Jamaica on either side of Mole, St. Nicholas.

The local weather was greatly disturbed, and fine rains fell over Jamaica.

From the Cayman Islands the cyclone passed over the N. W. of Cuba, crossed the gulf and devastated New Orleans and the other towns in the Southern States on the 20th and 21st. There was great loss of life and property.

1909 September 22nd to 27th. This was a large and shallow depression which produced heavy rains over Jamaica; the centre lay to the N.W. of us, and we were not threatened in any way. The island rainfall for September was more than twice its average.

October 6th to 8th. A slight fall occurred on the 6th; rain set in on the 7th, and there were heavy squalls during the night. At 7 a.m. on the 8th the following were the readings in Jamaica:—

	Bar.	Wind.
Morant Point	29,805	S.E.
Kingston	29,794	do.
Chapelton	29,778	do.
Kempshot	29,775	do.

This showed as clearly as possible that the depression was W. of Jamaica, and that there was no cause for apprehension. That evening the bar. rose rapidly.

The storm struck Havana early on the 11th with full hurricane force, and did an enormous amount of damage.

1909 Oct. 23rd. The U. S. Weather Bureau reported a disturbance E. of Jamaica; it may have moved N.; at any rate a local circular was issued to that effect on the 24th and nothing more was heard of it.

1909 Nov. 4th to 11th. Rains set in from the north during the night of the 4th, and continued during the 5th, 6th and 7th with a slowly rising bar. and an ordinary Norther had apparently set in. The wind was very strong on the 7th and following days, and the s.s. "Bradford," and some sloops were driven ashore. On the 8th, 9th and 10th the rains were remarkably heavy with a bar. fallen to the average: on the 11th the bar. fell all day with indications that the centre lay to the S. or S.W. of Jamaica, and on the 12th the weather became fine again.

No information has been received as to the nature of this great disturbance; but the following notes may be useful. On Nov. 1st the schooner "Alexandria" was driven ashore at Turks Island; on the 2nd the storm commenced at the towns Port de Paix, Cape Haytian, and Gonaives and lasted several days, and did a great deal of damage. There were subterraneous sounds and a wave caused by seismic disturbance below the bed of the sea swept through the last named town.

Puerto Plato also suffered greatly, the storm came from the N. or NE., and the river Yaque rose as much as 80 feet in consequence of the flood rains, and washed small villages away.

The s.s. "Boston" encountered a hurricane on the 4th, 60 miles N. of Turks Island; the storm was from the ENE., and lasted for 2 days on her way to Jamaica through the Windward Passage.

The "Athena" making for the Gulf from beyond the Windward Islands met the hurricane on the 10th, and was wrecked on the Morant Cays on the 11th.

The s.s. "Jose" from Boca del Toro to Jamaica ran into this storm. The s.s. "Niedarwald" met a violent hurricane in the Carribean Sea about the 2nd and made Port-au-Prince on the 12th.

The s.s. "Arno" left Kingston for Holland Bay on the night of the 10th and returned on the 11th, without having rounded Morant Point and reported strong NE. winds.

The s.s. "Port Antonio" after passing Turks Island on the 11th ran into a storm in the Windward Passage which lasted until 4 a.m. 12th.

Lastly, at Colon they had heavy rains from the 10th to the 12th, with the wind NW.

It will be noticed that the whole of the western part of the Carribean Sea was simultaneously relieved of this stormy depression on the 12th.

I am not aware that anything of the kind has occurred before affecting such an enormous area simultaneously.

In Jamaica the rains were chiefly confined to the eastern end of the island; at the western end very little rain fell; and it is interesting to notice that during this tremendous rain-storm that the rain rapidly increased with the elevation; Morant Point had only 15 inches during the whole month, but Mount Holstein and Cedar Valley had 65; Moy Hall, still higher, had 78; and Silver Hill which I believe is still higher had 135 inches from the 4th to the 11th, inclusive.

It is needless to say that these rains brought the rivers and gullies down which did a great deal of damage; the wind also did some damage by blowing down about one-fourth of the banana crop among the eastern parishes.

1910 Last year the season opened with a storm over the Isthmus of Panama; and this year again the season opened with a storm over Costa Rica in the first week in August, which destroyed a million banana trees, and did other damage.

1910 The next disturbance occurred on August 23rd and 24th south of Porto Rico and San Domingo but it did not develop or further approach Jamaica; and a circular was issued in Jamaica on the 25th to that effect.

1910 On the 7th September the U. S. Weather Bureau again gave notice of a cyclone south of Porto Rico moving west; and on the 8th of another storm-centre south of eastern Cuba. As neither of them affected our barometers here, a circular was issued on the 8th to the effect that the Porto Rican storm had turned north. This was true; the storm went straight over the town of San Juan in Porto Rico, and did a great deal of damage. Nothing more was heard of it. The other storm passed into the gulf of Mexico, and went inland near the Rio Grande, and so died out.

1910 On the 25th September the U. S. Weather Bureau reported a disturbance east of Barbados moving west; on the 26th it was west of Dominica; on the 27th it was south of Porto Rico; and on the 28th it was south of Haiti, still moving west. Circulars were of course issued in Jamaica; and on the 28th there was considerable alarm in Kingston, which was however quite unnecessary, for it was a very small depression; theory indicated that the fall of pressure at the centre on the 27th and 28th was not more than two or three-tenths of an inch, and that the pressure was diminishing. It hardly affected the barometers in Jamaica as it passed; it gave us some rain and then died out.

This depression shows the advisability of giving information in Jamaica of the intensity of such disturbances as approach or pass near us, although such information must involve theoretical considerations as deduced from 30 years study of cyclones in Jamaica and published in the U. S. Monthly Weather Review for April 1906.

1910 We now come to the October storms. On the 9th and 10th October a small depression passed south of Jamaica; it could not have been less than 300 miles in diameter because it affected all our barometers to about the same extent at the time it passed. The following are the average pressures at the five observing stations, Morant Point, Kingston, Chapelton, Kempshot and Negril Point which closely agree:—

				(Pressure) (cor. for DV)
October	9th,	7 a.m.	...	29.810
October	9th,	3 p.m.	...	29.804
October	10th,	7 a.m.	...	29.786
October	10th,	3 p.m.	...	29.814
October	11th,	7 a.m.	...	29.852

And as the mean pressure at that time of the year was 29.876, it is clear that the fall was too small to greatly affect the wind and cloud-drift. However, the centre was south-east of Kingston October 9th, 3 p.m., and south of Kempshot October 10th, 7 a.m., so that the centre was moving at the rate of 130 statute miles per diem.

On the 11th the centre would have been WSW. of Negril Point; and now it began to develop; so that our barometers, instead of rising as the centre moved away, remained steady, while the wind at the west end of the island increased in strength from the SE. with squalls and rain.

On the 12th the storm-centre was SE. of Grand Cayman; on the 13th it was west of that island; and of course a considerable amount of damage was done to crops and shipping as it passed.

Now while this cyclone was moving along rather slowly, another cyclone developed in the provinces of Trinidad and Santa Clara in Cuba; it devastated those provinces on the 13th and moved WNW., passing south of Havana on the 14th, and so went into the

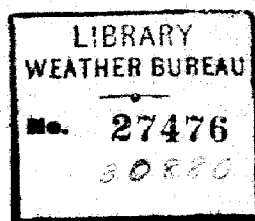
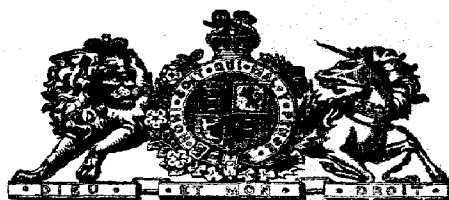
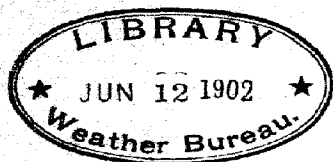
Gulf of Mexico on the 15th. In the meantime the first cyclone had slackened speed to allow the second faster moving cyclone to pass; it then turned in its course, and again increasing in intensity, it swept Havana and Key West on the 17th and 18th with an enormous loss of property.

The second development was so great that our barometers in Jamaica fell to the storm although it was 500 miles away, and we had a spell of rainy squally weather. At Key West the measured velocity of the wind reached 100 miles an hour.

The storm continued its course with increased speed over Florida and up the Atlantic coast of the U.S.

M. H.

No. 278.



JAMAICA

WEATHER REPORT

FOR THE MONTH OF

MARCH, 1902.

METEOROLOGICAL RESULTS.

The Bar-pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus; the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

STATION.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	"	"	"	"	"	"		"		"
Morant Point Light House	8	29.95	29.91	77.6	83.3	...	...	...	...	...	...	...	...
Negril Point Light House	33	29.96	29.91	75.0	80.5	84.0	70.8	13.2	86.9	9	64.9	20	22
Castleton Gardens	496	...	...	65.7	80.8	84.3	60.9	23.4	...	...	...	...	...
Hope Gardens	600	29.98	29.89	68.2	82.1	86.5	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	...	...	67.3	76.4	85.1	63.9	21.2	87	2*	63	20 & 21	25
Kempshot	1,778	...	...	68.8	78.9	77.4	66.4	11.0	83.0	1 & 31	63.0	7	20
Hill Gardens	4,907	25.23	25.21	68.6	64.0	68.2	54.9	13.3	72	31	54	2*	18

STATION.	Elevation.	Dew Point and Humidity.		Rainfall.	Wind per diem.	Wind: direction (from and miles per hour.)		Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.	3 p.m.			7 a.m.	3 p.m.	7 a.m.			3 p.m.		
	ft.	"	"	in.	miles	"	"	L.	M.	U.	L.	M.	U.
Morant Point Light House	8	...	...	3.47	...	† Var.	8.0 Var.	1.6	1.8	1.0	1.7	1.4	0.9
Negril Point Light House	33	68.7	81	71.6	75	4.48	243	Var.	7.1	Var.	10.0	...	...
Castleton Gardens	496	62.9	92	72.9	75	20.07	...	...	...	...	...	...	...
Hope Gardens	600	64.2	87	70.2	67	3.63	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	64.8	91	68.6	76	7.43	...	...	...	...	...	...	...
Kempshot	1,778	64.1	85	66.8	79	3.20	148	...	...	...	...	...	...
Hill Gardens	4,907	64.7	86	60.8	86	5.67	...	...	...	...	...	...	...

* And on other days.

† Estimated.

RAINFALL FOR MARCH, 1902.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to tables recently prepared. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each Division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island embracing the four Divisions.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:

North Eastern Division	-	-	25
Northern and Central	-	-	22
West Central	-	-	26
Southern	-	-	27

100

NORTH-EASTERN DIVISION.		MARCH, 1902				
		Total Fall.	Greatest fall in 24 hours		Days on which 0.01 or more fell.	Average.
			Amount.	Date.		
	In.	In.	In.	In.		In.
Hordley	6.22	1.90	16	9	3.68	
Manchioneal	4.68	2.00	10	3	2.83	
Fair Prospect	4.83	1.50	9	8	...	
Bath	...	...	...	...	3.10	
Moore Town	9.68	2.30	8	13	...	
Port Antonio	4.75	1.35	10	7	3.92	
Fellowship	10.80	2.20	9	13	4.72	
Johnson River Bridge	2.14	0.53	10	8	...	
Shrewsbury	...	...	...	...	...
Cedar Valley, St. Thos	3.24	0.46	29	12	2.11	
Hill Gardens	3.63	1.63	12	9	5.30	
Resource	...	...	...	...	...
Buff Bay	6.37	2.42	8	10	3.62	
Greenvale	13.75	4.20	7	11	...	
Mt. Holstein	9.92	4.56	8	15	...	
Hardware Gap	7.00	...	...	...	3.13	
Irish Town	3.27	0.57	7	7	...	
Annetto Bay	4.26	3.25	8	3	2.50	
Stony Hill Reft.	7.43	1.75	7	13	2.65	
Castleton Gardens	20.07	8.10	8	14	4.08	
Lawrence Tavern	5.04	2.10	7	7	1.67	
Quebec	...	...	...	...	3.01	
Carew Castle	4.63	1.15	8	12	...	
Water Valley	7.10	3.25	8	7	...	
Richmond, St. Mary	8.74	3.38	9	10	2.28	
Kendal, St. Mary	...	...	...	...	...
Gayle, P.W.D.	5.71	2.30	8	9	4.50	
Bio Hoe	4.08	2.27	8	7	3.69	
Unity Valley	4.10	1.73	8	7	3.76	
Moneague	5.19	2.30	8	11	2.57	
Claremont	4.43	1.62	8	10	3.02	
Albion	2.96	1.66	8	7	3.59	
Averham Park	6.38	2.65	8	9	3.38	
Ballintoy	2.85	1.65	8	6	3.00	
Means	5.71	...	...	...	3.80	

MARCH, 1902.

NORTHERN DIVISION.

	Total Fall.	Greatest fall in 24 hours		Days on which 0.01 or more fell.	Average
		Amount.	Date.		
	In.	In.			In.
Port Maria	7.08	1.70	9	6	2.70
Ocho Rios	3.93	1.60	9	5	...
Drax Hall	5.34	2.20	9	5	3.03
St. Ann's Bay	2.80	0.70	8	7	1.94
Richmond Estate	6.67	1.58	10	7	2.33
Llandoverly	9.46	2.35	12	6	2.30
Southfield	1.45	0.81	10	3	...
Brown's Town	4.01	2.24	8	9	2.98
Hyde Park	5.10	2.00	16	6	...
Dry Harbour	1.92	.75	7	3	...
Chewmagna	4.91	1.94	11	10	...
Home Castle	3.96	1.15	8	8	2.49
Richmond Pen	5.02	2.02	5	4	2.27
Mahogany Hall	5.38	1.74	12	6	2.16
Brampton Bryan	3.79	1.40	7	7	1.86
Bryan Castle	3.03	1.52	8	8	1.86
Braco	2.17	0.93	8	5	1.68
Arcadia	2.90	1.41	8	7	1.85
Harmony Hall	2.17	0.77	8	7	1.66
Launcester	2.41	1.21	8	7	2.02
Vale Royal	2.52	0.90	8	6	2.30
Colchis Pen	4.05	1.60	6	5	1.63
Hyde	3.01	1.10	8	7	2.75
Georgia	1.96	1.00	8	3	2.04
Long Pond	2.69	1.23	8	6	...
Steelfield	2.32	1.00	8	5	2.20
Oxford	1.55	0.65	11	3	1.84
Cambridge	2.49	0.70	8	6	2.16
Lottery	1.25	0.60	8	4	1.97
Falmouth P.W.D.	0.83	0.34	8	6	1.80
Holland Pen	1.15	0.65	8	3	1.51
Golden Grove, Trel.	...	...	...	...	...
Tilston	...	...	...	...	...
Orange Valley	...	...	...	...	...
Kent	1.60	0.90	8	5	1.77
Dundee	0.93	0.43	8	3	1.93
Phoenix	2.12	1.	13	8	2.32
Gales Valley	...	...	...	...	...
Canaan	3.57	0.65	8	8	1.50
Lima	1.00	0.40	8	4	...
Content	0.92	0.50	8	4	2.39
Guilsbro'	...	...	...	...	...
Moor Park	2.38	1.06	6	5	...
Success	1.10	0.50	8	4	1.91
Cinnamon Hill	1.07	0.50	8	4	1.37
Rose Hall	0.90	0.55	8	3	1.23
Running Gut	0.82	0.42	8	3	1.32
Spring	1.25	0.50	9	4	1.69
Ironshore	2.20	1.30	10	5	1.32
Montego Bay	1.66	0.45	9	5	1.39
Fairfield, St. James	...	...	...	...	...
Anchovy	4.81	2.41	10	9	1.67
Round Hill	...	...	...	...	...
Tryall	2.21	1.56	10	2	1.67
Sandy Bay	5.05	3.60	10	4	1.66
Lucea	2.88	1.57	9	5	1.79

CENTRAL SUB-DIVISION	MARCH, 1902.					SOUTHERN DIVISION.	MARCH, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
	In.	In.			In.		In.			In.	
Headworks, Rio Cobre	1.33	0.44	17	6	2.95						
Linstead	7.19	2.00	7	11	2.24						
Berkshire Hall	...	...	...	...	...	
Point Hill	7.99	1.72	15	11	2.90	Morant Point L. H. ...	3.47	0.65	13	16	1.78
Harker's Hall	...	...	...	...	...	Morant Bay	3.39	1.20	16	7	0.78
Worthy Park	3.85	1.30	11	5	2.67	Easington	2.35	0.65	11	8	1.19
Kellett's	...	...	...	...	...	Bull Bay	0.37	0.20	13	4	0.27
Chapelton	5.24	3.01	11	8	2.39	Gordon Town	1.57	0.93	12	4	0.98
Lower Chapelton	5.22	2.93	11	7	1.98	Hope Gardens	3.63	1.63	12	9	...
Savoy House	4.82	2.27	11	10	...	Halfway Tree	1.89	0.84	9	7	0.78
Mears	...	...	...	...	...	Lunatic Asylum	0.78	0.25	14	9	...
Cave Valley	2.01	0.78	8	5	2.78	Kingston Gardens	0.91	0.61	14	4	...
						Public Works Office...	0.73	0.50	14	4	1.18
Means	3.19	...	...	...	2.04	Plumb Point L. H. ...	0.15	0.11	13	2	0.99
						Port Royal N. Hospital	0.20	0.20	12	1	...
						Ferry	3.33	1.50	12	6	1.11
						Lawrencefield	...	...	...	...	...
WEST CENTRAL DIVISION.						Spanish Town	2.14	0.49	12	9	2.42
						Hog Hole Pen	2.13	0.40	18	9	2.42
Moocho	3.18	1.47	11	6	...	Browns Hall	4.31	1.10	7	6	...
Baillieston	2.20	0.61	11	6	...	Old Harbour	1.23	0.55	6	4	2.05
Farm Plantation	1.61	0.70	5	7	3.14	Moreland Estate	0.97	0.71	6	3	...
Brokenhurst	1.94	0.64	11	8	2.70	May Pen	2.38	0.78	6	7	1.38
Christiana	3.44	1.32	11	6	3.80	Denbigh	...	...	...	...	...
Kendal, Manchester	1.72	0.35	14	9	3.80	Parnassus Estate	...	...	...	...	...
Mandeville P.W.D.	4.13	1.81	11	10	4.67	Amity Hall	0.71	0.30	6	4	...
Carlton, Mandeville	3.27	1.64	11	5	...	New Yarmouth	1.01	0.80	6	3	1.08
Fairfield, Manchester	1.57	0.60	11	7	...	Rest	...	...	...	...	...
Fair View	1.47	0.80	12	8	...	Victoria Town	0.32	0.32	...	1	1.94
Ulster Spring	3.80	0.87	13	9	2.54	Stone's Hope	1.53	0.72	11	4	2.56
Troy	...	...	...	...	...	Newport, Manchester.	2.74	0.63	11	7	2.81
Fontabelle, Trelawny.	5.50	...	...	...	1.93	Alligator Pond	1.40	1.40	5	1	1.84
Windsor Pen, Trel.	5.59	1.25	10	11	2.27	Potsdam	2.52	0.67	11	6	2.77
Balaclava	3.30	1.30	11	4	3.26	Long Hill	3.03	1.29	8	10	3.43
Elim	3.79	1.90	12	7	2.65	Pepper	1.15	0.45	8, 12	6	4.34
Appleton	4.19	1.40	12	7	4.55	Torrington	...	...	...	...	...
Maggotty	5.32	1.25	12	12	4.99	Bethlehem, St. Eliz.	3.40	1.12	12	9	...
Spring Vale, St. James	3.73	1.42	6	5	2.92	Santa Cruz	7.53	2.60	11	12	3.29
Maroon Town, St. Jas.	...	...	...	...	...	Pedro Plains	2.52	0.80	6, 8	7	...
Kempshot	...	...	...	...	...	Black River	7.23	2.38	11	8	2.12
Kepp	...	...	...	...	...	Font Hill	5.25	2.00	12	6	1.83
Kew Park	4.98	1.90	11	10	3.66	Peter's Ville	9.51	2.16	11	11	3.05
Hazelymph	6.65	2.30	10	7	2.83	Salem	5.32	2.08	9	9	...
King Gate	8.99	1.79	10	8	...	Mount Edgecombe	7.13	1.96	8	11	3.16
Darliston	10.18	4.78	12	12	6.01	Bluefields	4.05	1.15	9	8	...
Whithorn	9.76	2.70	10	12	4.92	Sweet River	3.76	1.00	9	8	3.17
Galloway	...	...	...	...	...	Cornwall	5.53	2.30	11	5	...
Lethe Bridge	5.85	2.95	10	7	2.22	Windsor, Sav.-la-Mar	3.00	1.10	11	8	2.87
New Garth	...	...	...	...	...	Sav.-la-Mar P.W.D.	2.62	0.86	11	10	2.55
Copse	...	...	...	...	...	Retreat	6.90	3.26	11	7	3.11
Cacoon Castle	...	...	...	...	...	Spring Valley	11.94	2.65	14	9	...
Great Valley	...	...	...	...	...	Negril Point L. H.	4.48	1.03	11	11	...
Brownsville	6.23	2.06	10	8	...						
Fontabelle	4.39	1.30	11	9	...						
Morgans Bridge	8.10	1.68	22	11	3.89						
King's Valley	7.10	1.50	14	9	3.19						
Kings Vale Police St.	...	...	...	...	...	
Means	5.3	...	...	...	3.49	Means	3.05	...	...	...	2.11

NOTES.

COMPARATIVE TABLE OF RAINFALL.
(Based upon the "Average" Stations only.)

	MARCH.	
	1902.	Average.
	In.	In.
North Eastern Division	5.71	3.30
Northern	3.19	2.04
West Central	5.03	3.49
Southern	3.05	2.11
Means	4.24	2.73

The Rainfall for March was therefore considerably above the average throughout the whole Island. The maximum fall recorded was at Castleton, 20 inches—in the North Eastern Division, while at several places in the Southern district the rainfall was almost nil.

The Health of Kingston has been omitted in this Report. It would seem more fitting for the Health Officer to utilise the weather Statistics in a medical report than to publish medical data without adequate critical correlation to the weather conditions recorded.

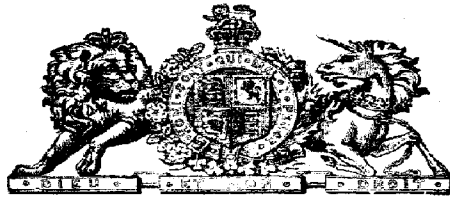
CORRECTIONS.

In Weather Report for Jan., 1902.—Cloud mean at 3 p.m., Middle should read 3.8 and not (1.6).

J. S. B.

H. H. COUSINS,
Government Laboratory, Kingston.

May 8th, 1902.



WEATHER REPORT

A P R I L, 1 9 0 2.

The Bar-pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part *fracto-stratus*; the Middle clouds, *cumulus*; and the Upper clouds, *cirrus*, or *cirro-stratus*.

STATION.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	"	"	"	"	"	"	"	"	"	"
Morant Point Light House	8	29.900	29.855	79.3	85.0	...	...	...	...	...	...	...	...
Negril Point Light House	33	29.93	29.88	77.1	83.0	86.0	71.5	14.5	...	...	...	...	...
Hope Gardens	600	29.958	29.884	73.9	82.8	87.8	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	...	...	70.2	78.9	84.8	...	...	...	...	...	...	...
Kempshot	1,773	...	...	72.1	75.2	80.1	66.6	13.5	85.1	...	64.5	...	...
Hill Gardens	4,907	...	...	59.1	65.1	68.9	55.0	13.9	...	...	...	...	...

[illegible]

RAINFALL FOR APRIL, 1902.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to tables recently prepared. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each Division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island embracing the four Divisions.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows: -

North Eastern Division	-	-	25
Northern and Central	-	-	22
West Central	-	-	26
Southern	-	-	27

100

APRIL, 1902.					
NORTH-EASTERN DIVISION.	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Hordley	5.19	2.80	18	7	5.40
Manchioneal	...	...	...	...	7.44
Fair Prospect	5.22	2.95	18	5	...
Bath	6.52	2.40	18	8	6.48
Moore Town	4.82	1.03	25	19	...
Port Antonio	3.19	1.17	18	6	6.42
Fellowship	6.23	2.36	25	9	19.47
Johnson River Bridge	4.00	2.94	18	6	...
Cedar Valley, St. Thos	4.3	3.35	9	3	3.02
Hill Gardens	5.02	1.11	17	6	6.80
Resource	2.12	...	...	...	...
Buff Bay	6.50	2.42	8	8	7.44
Greenvale	7.35	1.97	24	11	...
Mt. Holstein	16.29	3.92	19	16	...
Hardware Gap	5.70	...	...	...	7.80
Irish Town	4.62	2.32	18	5	...
Annotto Bay	7.07	5.25	19	7	7.64
Stony Hill Reft.	5.80	4.20	18	5	5.61
Castleton Gardens	8.80	5.55	18	11	7.07
Lawrence Tavern	5.39	3.40	18	7	3.87
Carew Castle	8.08	4.34	18	5	...
Water Valley	7.80	5.75	18	7	...
Richmond, St. Mary	11.47	9.42	18	10	5.40
Kendal, St. Mary	11.62	10.52	18	2	...
Gayle, P.W.D.	4.26	1.75	18	8	5.23
Rio Hoe	4.25	2.27	6	6	4.60
Unity Valley	4.25	2.72	18	7	4.84
Moneague	3.51	2.36	18	7	4.34
Claremont	2.18	1.25	7	8	5.17
Albion	2.28	1.38	7	4	4.63
Averham Park	3.52	2.18	7	10	5.13
Ballintoy	2.15	0.75	6	5	5.10
Means	5.21	...	...	...	5.33

APRIL, 1902.

NORTHERN DIVISION.

	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Port Maria	5.26	3.35	18	7	3.64
Ocho Rios	3.04	1.19	30	4	...
Drax Hall	4.42	2.20	7	4	3.03
St. Ann's Bay	2.94	1.40	7	4	2.96
Richmond Estate	3.62	1.32	18	5	3.29
Llandeverly	5.18	1.87	7	6	3.30
Brown's Town	5.07	2.43	7	7	3.86
Dry Harbour	1.55	1.05	18	2	...
Chewmagna	5.09	2.65	7	6	...
Home Castle	1.85	1.00	19	3	3.56
Richmond Pen	4.07	3.55	7	2	4.12
Mahogany Hall	3.70	1.60	7	3	4.02
Brampton Bryan	1.53	1.25	18	2	2.21
Bryan Castle	1.92	1.37	18	3	2.17
Braco	1.85	1.50	19	3	2.51
Arcadia	1.85	1.48	18	3	2.53
Harmony Hall	2.10	1.80	18	2	2.27
Lancaster	1.42	1.20	18	3	2.57
Vale Royal	1.75	1.28	18	5	3.17
Colchis Pen	3.65	1.85	7	5	3.23
Hyde	2.27	1.15	18	5	3.52
Georgia	1.64	1.45	18	2	2.71
Long Pond	1.52	1.00	18	3	...
Steelfield	2.03	1.33	18	3	2.72
Oxford	5.40	4.20	18	4	2.60
Cambridge	6.41	3.60	18	5	3.14
Lottery	3.35	2.40	18	4	2.39
Falmouth P.W.D.	1.08	0.79	18	4	2.33
Holland Pen	2.44	1.40	18	3	2.53
Golden Grove, Trel.	...	...	...	...	2.83
Tilston	3.70	1.50	18	6	3.02
Orange Valley	...	...	...	...	2.29
Kent	2.18	1.20	18	4	2.50
Dundee	2.45	1.20	17	3	4.58
Phoenix	3.12	1.40	17	6	4.75
Gales Valley	...	...	...	...	3.38
Canaan	3.39	1.65	18	5	3.97
Lima	3.00	1.75	18	4	...
Content	3.65	1.95	18	5	2.16
Guiltsbro'	3.19	2.10	18	5	3.40
Moor Park	2.67	1.58	18	4	...
Success	3.87	2.35	18	5	2.91
Cinnamon Hill	3.25	2.10	18	4	1.94
Rose Hall	3.80	2.20	18	4	1.83
Running Gut	3.80	2.50	18	3	1.67
Spring	...	...	...	...	1.88
Ironshore	3.70	2.95	18	3	2.27
Montego Bay	3.86	2.33	18	4	3.25
Fairfield, St. James	2.75	2.05	18	3	3.22
Anchovy	4.11	2.40	18	4	3.44
Round Hill	...	...	...	...	2.49
Tryall	7.20	5.50	18	2	3.03
Sandy Bay	4.62	3.75	18	3	3.16
Lucea	3.83	3.28	18	5	2.88

CENTRAL SUB-DIVISION	APRIL, 1902.					SOUTHERN DIVISION.	APRIL, 1902.					AVERAGE.
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.		
		Amount.	Date.					Amount.	Date.			
	In.	In.			In.		In.			In.		
Headworks, Rio Cobre	7.12	3.17	18	3	3.79							
Linstead	8.54	4.87	18	5	4.57							
Berkshire Hall	3.75	3.28	18	4	...	Morant Point L. H. ...	3.52	1.91	19	9	3.03	
Point Hill	9.42	7.28	18	4	5.96	Morant Bay	1.86	1.80	19	3	2.63	
Worthy Park	4.00	4.00	18	1	3.60	Easington	0.90	0.90	18	1	1.50	
Chapelton	4.55	3.63	18	6	3.61	Bull Bay	0.73	0.60	18	3	0.45	
Lower Chapelton	5.54	3.64	18	8	5.59	Gordon Town	2.88	1.70	18	7	3.92	
Savoy House	4.48	2.23	18	8	...	Hope Gardens	4.29	2.40	18	6	2.93	
Mears	4.70	1.69	18	7	...	Halfway Tree	3.65	2.18	18	7	1.61	
Cave Valley	1.98	0.90	18	4	5.48	Lunatic Asylum	1.96	1.76	18	5	...	
						Kingston Gardens	1.42	1.35	19	2	...	
Means	3.69	...	...	...	3.21	Public Works Office...	1.24	1.12	18	3	1.05
						Plumb Point L. H. ...	1.56	0.86	19	5	1.06	
						Port Royal N. Hospital	1.10	0.80	17	2	...	
						Ferry	3.03	0.10	18	4	2.41	
						Spanish Town	3.11	1.50	19	5	2.48	
						Hog Hole Pen	4.98	2.60	19	...	3.13	
						Browns Hall	8.93	3.75	18	8	...	
						Old Harbour	2.94	1.14	10	6	3.09	
						Moreland Estate	1.04	0.62	18	4	...	
						May Pen	3.22	2.66	18	6	2.47	
						Denbigh	3.50	2.12	18	4	2.40	
						Amity Hall	1.41	0.70	18	4	...	
						New Yarmouth	3.69	2.40	18	4	2.16	
						Rest	2.23	0.90	18	6	...	
						Victoria Town	5.94	1.94	18	5	4.49	
						Stone's Hope	5.40	2.35	18	5	4.41	
						Newport, Manchester.	6.22	1.80	18	7	4.13	
						Alligator Pond	4.90	2.05	29	3	3.85	
						Potsdam	2.91	0.16	18	7	4.39	
						Long Hill	6.55	1.37	19	8	7.83	
						Pepper	11.45	2.05	9	9	0.85	
						Torrington	...	...	...	...	4.44
						Bethlenem, St. Eliz.	4.20	1.49	28	8	...	
						Santa Cruz	7.21	1.89	24	11	9.26	
						Pedro Plains	2.93	1.20	25	5	...	
						Black River	4.54	2.10	29	9	4.08	
						Font Hill	10.55	2.75	27	6	3.34	
						Peter's Ville	6.68	2.00	18	7	7.07	
						Salem	7.47	1.62	18	9	...	
						Mount Edgecombe	7.78	2.19	3	7	5.10	
						Bluefields	5.61	1.97	18	8	...	
						Sweet River	5.60	1.95	18	8	5.36	
						Cornwall	4.16	2.06	18	4	...	
						Windsor, Sav.-la-Mar	3.79	2.64	18	6	4.93	
						Sav.-la-Mar P.W.D.	3.36	2.56	18	7	5.53	
						Retreat	5.36	2.00	18	7	5.23	
						Negril Point L. H.	2.74	1.74	18	5	...	
Means	8.24	...	...	...	7.66	Means	4.48	...	...	...	3.80

NOTES.

COMPARATIVE TABLE OF RAINFALL.
(Based upon the "Average" Stations only.)

	APRIL	
	1902.	Average.
	In.	In.
North Eastern Division	5.21	5.33
Northern	3.69	3.21
West Central	8.24	7.66
Southern	4.48	3.89
Means	5.40	5.02

The Rainfall for April was therefore appreciably above the average for all parts of the Island with the exception of the N. E. Division. The greatest rainfall 15.87 inches was at Maggotty in the West Central Division while at two Centres in the S. Division less than 1 inch of rain is recorded.

H. H. COUSINS.

Government Laboratory,
Kingston.



WEATHER REPORT

M A Y, 1 9 0 2.

The Bar-pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part *fracto-stratus*: the Middle clouds, *cumulus*; and the Upper clouds, *cirrus*, or *cirro-stratus*.

[illegible]

RAINFALL FOR MAY, 1902.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to tables recently prepared. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each Division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island embracing the four Divisions.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows: -

North Eastern Division	-	-	25
Northern and Central	-	-	22
West Central	-	-	26
Southern	-	-	27

100

NORTH-EASTERN DIVISION.	May, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Hordley	6.70	1.93	20	16	15.78
Manchioneal	8.25	1.92	19	13	21.00
Fair Prospect	5.85	1.30	10	10	...
Bath	10.91	3.77	7	10	14.87
Moore Town	...	...	...	...	...
Port Antonio	9.24	1.46	21	17	20.45
Fellowship	17.81	4.0	7	20	28.43
Johnson River Bridge	1.18	0.90	22	6	...
Shrewsbury	13.27	3.14	13	12	...
Cedar Valley, St. Thos	9.17	4.94	24	9	13.29
Hill Gardens	13.93	2.07	30	27	11.41
Resource	12.50	...	...	...	...
Buff Bay	9.78	2.55	30	14	9.30
Greenvale	...	...	...	...	...
Mt. Holstein	13.11	1.87	13	28	...
Hardware Gap	20.64	...	...	...	16.05
Annotto Bay	8.10	5.00	10	9	7.19
Stony Hill Reft.	8.39	1.10	8	17	10.31
Castleton Gardens	10.10	2.12	9	20	13.12
Lawrence Tavern	10.18	1.67	30	23	11.19
Quebec	...	...	...	...	6.87
Carew Castle	9.64	1.37	9	23	...
Water Valley	11.88	3.29	6	14	...
Richmond, St. Mary	6.02	1.40	10	17	8.88
Kendal, St. Mary	...	...	...	...	...
Gayle, P.W.D.	4.30	1.00	10	16	9.41
Rio Hoe	4.41	1.8	10	13	9.99
Unity Valley	4.65	1.24	15	18	10.98
Moneague	4.30	1.20	10	16	10.44
Claremont	6.77	1.60	15	18	9.12
Albion	...	...	...	...	8.78
Averham Park	8.32	2.17	10	14	8.95
Ballintoy	9.92	2.61	9	15	7.77
Means	9.13	...	...	...	12.76

NORTHERN DIVISION.

	May, 1902.				
	Total Fall.	Greatest fall in 24 hours		Days on which 0.01 or more fell.	Average
		Amount.	Date.		
	In.	In.			In.
Port Maria	6.51	2.70	30	16	7.39
Ocho Rios	2.08	0.50	4	7	...
Drax Hall	4.25	1.16	4	10	7.97
St. Ann's Bay	3.34	1.23	4	10	7.60
Richmond Estate	5.84	1.40	1	13	8.37
Llandoverly	4.35	1.22	5	6	7.68
Southfield	...	...	...	...	...
Brown's Town	8.53	2.52	20	14	8.89
Hyde Park	8.40	1.50	20	8	...
Dry Harbour	5.69	2.10	20	10	...
Chewmagna	7.74	1.22	17	19	...
Home Castle	3.25	0.60	7	9	6.84
Richmond Pen	10.40	3.30	18	9	8.49
Mahogany Hall	13.76	3.99	9	12	8.87
Brampton Bryan	7.46	1.68	9	10	5.69
Bryan Castle	5.25	2.12	11	8	5.49
Braco	3.20	1.40	11	8	5.34
Arcadia	6.36	3.20	11	9	5.08
Harmony Hall	3.70	2.15	11	6	5.12
Lancaster	4.04	1.95	11	6	5.73
Vale Royal	4.66	2.06	11	13	6.67
Colchis Pen	9.00	3.20	9	8	8.12
Hyde	4.82	0.97	4	9	8.72
Georgia	3.71	1.94	11	7	6.17
Long Pond	3.15	0.70	10	10	...
Steelfield	2.55	0.63	9	8	6.13
Oxford	2.00	0.60	18	7	6.53
Cambridge	5.54	1.40	9	18	7.42
Lottery	3.77	0.80	11	12	6.82
Falmouth P.W.D.	1.51	0.75	4	7	5.77
Holland Pen	2.66	1.47	4	6	5.98
Golden Grove, Thel.	...	...	...	...	9.50
Tilston	1.20	0.35	15	7	8.32
Orange Valley	...	...	...	...	6.47
Kent	0.99	0.60	9	4	6.11
Dundee	2.55	0.95	9	6	6.97
Phoenix	1.87	0.50	7	10	9.14
Gales Valley	...	...	...	...	9.35
Canaan	5.37	1.14	9	11	8.63
Lima	0.98	0.40	14	5	...
Content	1.85	0.70	13	6	8.06
Gullsbro'	...	...	...	...	8.85
Moor Park	4.36	1.40	14	10	6.31
Success	0.00	...	...	...	5.00
Cinnamon Hill	0.20	0.20	10	1	5.44
Rose Hall	0.00	...	...	...	4.98
Running Gut	0.20	0.20	2	1	5.50
Spring	...	...	...	...	5.59
Ironshore	1.00	0.90	19	3	6.06
Montego Bay	2.03	1.15	10	7	8.42
Fairfield, St. James	...	...	...	...	9.42
Anchovy	3.79	1.04	10	10	9.38
Round Hill	...	...	...	...	7.60
Tryall	3.68	1.00	10	6	6.79
Sandy Bay	3.05	1.40	10	4	9.13
Lucea	1.90	0.97	31	8	9.19

CENTRAL SUB-DIVISION	MAY, 1902.					SOUTHERN DIVISION.	MAY, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
	In.	In.			In.		In.			In.	
Headworks, Rio Cobre	6.13	1.39	25	13	8.56						
Linstead	6.27	1.65	29	12	10.77						
Berkshire Hall	4.09	1.50	31	9	..	Morant Point L. H. ...	4.71	1.68	9	13	11.97
Point Hill	10.95	2.45	16	11	13.26	Morant Bay	4.49	2.06	7	6	9.66
Worthy Park	12.58	2.39	16	11	8.61	Easington	0.60	0.30	21	4	7.16
Kellets	14.86	4.88	9	12	..	Bull Bay	2.25	2.20	22	2	4.01
Chapelton	10.59	1.33	21, 23	21	8.87	Gordon Town	6.54	0.94	21	16	10.64
Lower Chapelton	10.83	1.55	24	18	11.09	Hope Gardens	5.34	1.55	12	9	7.01
Savoy House	10.33	1.56	5	10	..	Halfway Tree	3.18	1.30	21	5	5.78
Mears	15.01	2.70	27	18	..	Lunatic Asylum	1.33	0.73	22	10	..
Cave Valley	11.82	2.00	16	13	10.37	Kingston Gardens	1.19	0.38	21	4	..
						Public Works Office...	1.20	0.38	1	6	5.00
Means	4.87	...	...	...	7.56	Pumb Point L. H. ...	.97	.65	22	4	5.23
						Port Royal N. Hospital	1.30	.85	23	3	..
						Ferry	2.43	0.67	25	8	6.34
						Lawrencefield	2.05	1.25	3	3	..
WEST CENTRAL DIVISION.						Spanish Town	2.86	1.50	25	6	6.81
						Hog Hole Pen	4.66	1.38	24	19	7.42
						Browns Hall	9.77	2.04	7	11	..
						Bartons	..	..	..	..	..
Moocho	10.23	2.00	7	20	..	Old Harbour	3.00	1.15	31	7	6.27
Baillieston	17.51	2.57	9	22	..	May Pen	6.66	3.70	26	11	8.31
Farm Plantation	10.56	3.10	9	13	10.18	Moreland Estate	1.60	.94	7	4	..
Brokenhurst	12.31	2.60	9	18	10.06	Denbigh	6.92	1.40	30	12	8.13
Christiana	21.63	2.09	23	31	12.19	Amity Hall	1.60	1.5	7	3	..
Kendal, Manchester	14.81	1.50	9	22	11.40	New Yarmouth	3.50	2.20	7	2	5.92
Mandeville P.W.D.	12.58	3.12	22	19	12.36	Rest	3.12	1.10	7	7	..
Carlton, Mandeville	10.89	2.95	22	17	..	Victoria Town	4.25	1.25	21	7	11.99
Fairfield, Manchester	18.38	2.34	9	24	..	Stone's Hope	11.11	2.21	21	16	9.74
Fair View	4.96	1.51	26	13	..	Newport, Manchester.	9.93	1.56	21	14	8.97
Ulster Spring	17.17	2.23	9	22	15.00	Alligator Pond	10.30	2.01	17	9	6.18
Troy	26.51	2.00	17	31	19.38	Potsdam	7.35	2.35	23	11	6.12
Fontabelle, Trelawny.	8.60	2.70	4	18	11.40	Long Hill	19.05	6.25	8	20	10.46
Windsor Pen, Trel.	12.50	1.95	31	29	12.32	Pepper	21.05	3.30	7	26	12.85
Balaclava	26.48	2.70	11	23	16.22	Torrington	6.83	1.70	23	13	8.59
Elim	22.03	2.85	12	24	22.47	Bethlenem, St. Eliz.	12.34	4.06	15	15	..
Appleton	18.89	2.70	10	20	12.69	Santa Cruz	24.80	3.60	8	23	13.16
Maggotty	16.23	1.80	25	20	16.46	Pedro Plains	6.02	1.90	30	8	..
Spring Vale, St. James	10.76	1.72	15	19	13.57	Black River	7.56	1.66	30	12	7.61
Maroon Town, St. Jas.	..	..	..	..	12.03	Font Hill	8.95	1.90	24	10	10.12
Kempshot	7.76	2.18	10	16	10.67	Peter's Ville	10.65	2.09	30	17	12.94
Kepp	..	..	..	..	15.23	Salem	..	..	..	..	..
Kew Park	..	..	..	..	13.27	Mount Edgecombe	9.91	1.90	6	14	8.00
Hazelymph	11.99	2.25	8	18	12.31	Bluefields	9.62	1.70	10	12	..
King Gate	4.15	1.90	10	6	..	Sweet River	6.73	1.35	7	15	10.04
Darliston	19.17	2.10	6	27	19.75	Cornwall	14.00	2.65	10	15	..
Whithorn	10.22	2.70	10	15	17.97	Windsor, Sav.-la-Mar	4.13	1.40	21	12	9.67
Galloway	..	..	..	..	..	Sav.-la-Mar P.W.D.	5.30	1.73	15	4	10.82
Lethe Bridge	9.32	..	..	14	13.78	Retreat	4.96	1.50	7, 21	11	9.66
Copse	13.14	3.40	9	14	12.71	Spring Valley	..	..	..	..	..
Cacoon Castle	..	..	..	..	14.25	Negril Point L. H.	4.57	1.08	11	10	..
Great Valley	9.36	1.65	10	13	14.86						
Brownsville	14.46	4.95	10	20	..						
Fontabelle	12.42	3.80	7	6	..						
Morgans Bridge	19.07	3.53	7	24	13.9						
King's Valley	10.43	2.00	9	18	12.82						
Kings Vale Police St.	10.40	3.12	10	10	..						
Means	14.84	..	..	..	14.13	Means	7.04	...	...	...	8.85

NOTES.

COMPARATIVE TABLE OF RAINFALL.
(Based upon the "Average" Stations only.)

	MAY.	
	1902.	Average.
	In.	ln.
North Eastern Division	9.13	12.76
Northern	4.87	7.56
West Central	14.84	14.13
Southern	7.04	8.85
Means	8.97	10.82

The Rainfall for May was therefore above the average for the whole Island. The greatest rainfall occurred at Troy in the West Central Division, being 26.51 inches, while at two places in the Northern Division no rain fell.

NOTES ON THE VOLCANIC DUST.
(By Maxwell Hall, Esqr.)

The dust haze from the volcanoes in Martinique and St. Vincent was first noticed on the (7th ult.) it was strong on the 10th and strongest on the 16th. It seems to have travelled with the Trade winds at the rate of

12 or 13 miles an hour. The dust which fell on Barbados was carried there by the upper atmospheric current, which is from West to East (see W. R. 193 p. 4.)

VOLCANIC DUST.

A small sample of dust collected by S. T. Scharsmidt, Esqr., off the roof of outhouses at Hanbury, Shooter's Hill, was sent for examination. It was compared with a sample of dust sent from Barbados by the Imperial Commissioner of Agriculture and found to be identical therewith in composition. The particles of the Jamaica dust were finer in grade.

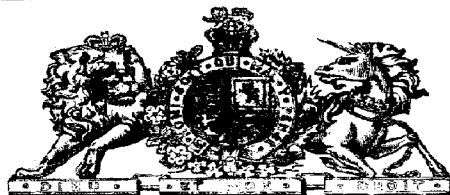
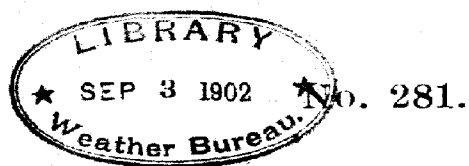
WEATHER REPORT No. 279

APRIL, 1902.

Returns sent up too late for publication in that Report.	Total fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.
		Amount.	Date.	
Lawrencefield	2.64	1.25	18	3
Brokenhurst	4.45	1.41	28	...
Torrington	6.88	1.70	23	13

H. H. COUSINS.

Government Laboratory,
Kingston.



JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JUNE, 1902.

METEOROLOGICAL RESULTS.

The Bar-pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

STATION.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
Morant Point Light House	ft. 8	in. 29.879	in. 29.848	82.0	85.8	...	...	...	...	...	...	...	...
Negril Point Light House	33	29.872	29.840	80.5	83.6	87.0	74.8	12.2	89.9	30	72.4	28	17.5
Castleton Gardens	496	...	...	72.9	82.6	86.6	66.2	20.4	91	28	63	3.6	18
Hope Gardens	600	29.869	29.856	75.5	83.5	87.0	...	...	91	*28	...	...	...
Stony Hill Reformatory	1,400	...	...	72.0	77.4	86.5	68.7	17.8	73	13.15	61	3	9
Hill Gardens	4,907	...	...	61.4	65.6	69.0	58.6	10.4	74	30	58	*1	18
Kempshot	1,773	29.870	29.845	73.4	75.5	81.1	70.6	10.5	83.4	14	68.5	4	14.9

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction (from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.	3 p.m.	7 a.m.	3 p.m.			7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.
Morant Point Light House	ft. 8	...	...	...	...	10.55	...	Var.	7.9	Var.	10.8	L. 3.3	M. 2.0	U. 1.0	L. 3.1	M. 2.3	U. 1.1
Negril Point Light House	33	73.7	80	75.1	75	3.82	214	Var.	5.8	Var.	8.7	1.0	2.2	4.6	2.1	4.9	2.0
Castleton Gardens	496	69.6	92	75.7	82	16.32	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	600	71.5	87	72.3	69	8.71	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	69.1	90	69.5	76	10.70	...	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	58.2	89	63	91	12.73	...	...	...	...	...	...	...	...	...	...	...
Kempshot	1,773	68.5	85	71.3	83	14.09	126	E	3.7	E-S-E	2.3	1.4	0.0	4.5	3.8	3.6	1.8

* And on other days.

RAINFALL FOR JUNE, 1902.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to tables recently prepared. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each Division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four Divisions.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	—	—	25
Northern and Central	—	—	22
West Central	—	—	26
Southern	—	—	27

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NORTH-EASTERN DIVISION.	JUNE, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Hordley	18.93	4.82	3	21	11.90
Manchioneal	21.6	5.48	3	16	7.27
Fair Prospect	...	...	...	...	...
Bath	22.38	3.87	3	18	10.15
Moore Town	22.60	4.20	3	18	...
Port Antonio	26.45	6.71	5	16	17.38
Fellowship	33.03	6.15	2	19	19.85
Johnson River Bridge	15.82	4.00	4	23	...
Shrewsbury	11.27	2.44	7	15	...
Cedar Valley, St. Thos.	20.77	6.36	18	23	9.59
Hill Gardens	12.73	2.32	8	20	7.29
Resource	10.75	...	...	...	...
Buff Bay	13.40	2.50	1	14	7.07
Greenvale	9.81	3.41	14	14	...
Mt. Holstein	9.47	1.79	2	19	...
Hardware Gap	15.56	...	...	...	5.08
Irish Town	8.16	2.05	19	9	...
Annotto Bay	7.91	2.00	18	9	4.27
Stony Hill Reft.	10.70	2.80	16	11	6.76
Castleton Gardens	16.32	3.76	18	23	9.27
Lawrence Tavern	13.99	3.55	16	14	5.58
Carew Castle	11.08	2.11	2	14	...
Water Valley	6.86	1.40	30	13	...
Richmond, St. Mary	10.93	1.88	6	23	4.74
Kendal, St. Mary	...	...	...	...	...
Gayle, P.W.D.	8.22	1.62	16	13	7.42
Rio Hoe	5.9	0.77	18	18	8.63
Unity Valley	10.15	1.80	9	22	7.69
Moneague	6.88	1.30	2	19	6.26
Claremont	4.54	.80	11	16	4.94
Albion	3.23	2.08	16	21	6.32
Averham Park	4.41	1.14	17	16	5.11
Ballintoy	14.00	2.37	16	23	4.56
Means	14.06	...	...	...	8.09

NORTHERN DIVISION.

	JUNE, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Port Maria	6.60	2.26	5	15	5.24
Ocho Rios	3.85	1.45	6	6	...
Drax Hall	3.93	1.20	23	9	4.72
St. Ann's Bay	4.95	1.40	6	12	3.42
Richmond Estate	4.78	1.43	17	13	5.10
Llandoverly	3.79	0.65	11	12	4.30
Southfield	...	...	...	...	...
Brown's Town	4.45	2.04	16	16	3.49
Hyde Park	10.80	2.00	3	10	...
Dry Harbour	2.29	0.73	17	10	...
Chewmagna	9.91	2.94	16	19	...
Home Castle	7.25	2.35	16	11	3.69
Richmond Pen	8.72	3.00	16	15	4.84
Mahogany Hall	8.05	1.70	1	17	4.96
Brampton Bryan	5.78	1.05	6	16	3.02
Bryan Castle	6.65	1.54	11	18	2.89
Braco	3.41	0.60	11	12	2.87
Arcadia	6.88	1.34	1	16	3.98
Harmony Hall	7.17	1.38	5	14	2.48
Lancaster	7.25	1.50	5	15	2.98
Vale Royal	8.85	1.33	25	18	4.07
Colchis Pen	7.49	2.41	16	7	4.63
Hyde	6.02	1.15	13	15	5.35
Georgia	7.37	1.40	2	13	3.45
Long Pond	7.15	2.33	12	18	...
Steelfield	7.49	2.41	12	20	4.12
Oxford	5.21	1.36	13	11	3.88
Cambridge	11.98	2.80	16	16	4.50
Lottery	5.40	1.05	17	14	3.72
Falmouth P.W.D.	2.81	1.67	12	9	2.22
Holland Pen	4.95	1.59	5	8	3.44
Golden Grove, Trel.	...	...	...	...	5.66
Tilston	8.40	2.05	5	17	5.05
Orange Valley	...	...	...	...	3.25
Kent	4.78	1.50	6	10	3.34
Dundee	6.10	1.50	5	11	4.18
Phoenix	9.15	1.60	12	18	7.10
Gales Valley	...	...	...	...	6.43
Canaan	17.73	2.64	11	16	5.07
Lima	7.93	2.00	11	16	...
Content	6.5	1.20	10	12	3.28
Gullsbro'	...	...	...	...	6.69
Moor Park	10.86	2.90	10	17	4.59
Success	4.00	1.50	18	10	1.85
Cinnamon Hill	2.70	0.80	18	10	2.68
Rose Hall	2.24	0.83	18	10	2.55
Running Gut	3.20	0.80	18	8	2.67
Spring	...	...	...	...	2.29
Ironshore	3.02	1.10	18	11	3.79
Montego Bay	10.17	1.70	2	15	6.87
Fairfield, St. James	13.95	2.20	12	18	6.89
Anchovy	12.01	1.50	2	24	8.27
Rond Hill	...	...	...	...	6.11
Tryall	13.59	1.96	11	18	6.94
Sandy Bay	12.39	2.77	6	17	4.85
Lucea	11.04	3.40	5	19	7.33

CENTRAL SUB-DIVISION	JUNE, 1902.					SOUTHERN DIVISION.	JUNE, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.					Amount.	Date.		
	In.	In.			In.	In.	In.			In.	
Headworks, Rio Cobre	2.67	1.42	3	9	5.75						
Linstead	9.90	1.35	2	19	7.41						
Berkshire Hall	8.78	1.40	2	20	..	Morant Point L. H. ...	10.55	2.09	4	23	6.61
Point Hill	11.22	2.00	3, 12	13	3.38	Morant Bay	15.81	2.83	2	26	6.42
Worthy Park	13.72	3.39	6	12	5.32	Easington	5.72	3.40	18	19	5.98
Kellets	...	...	...	...	...	Bull Bay	9.44	3.63	18	9	2.28
Chapelton	...	...	...	...	6.22	Gordon Town	8.67	2.03	7	10	2.88
Lower Chapelton	7.44	1.57	9	15	3.56	Hope Gardens	8.71	3.38	18	10	4.46
Savoy House	8.99	2.38	9	17	...	Halfway Tree	6.56	3.00	18	8	1.97
Mears	10.32	2.00	9	13	...	Lunatic Asylum	6.86	3.50	18	9	...
Cave Valley	8.32	1.60	9	19	6.79	Kingston Gardens	8.13	3.88	18	7	...
						Public Works Office...	7.10	3.40	19	7	3.52
Means	7.18	...	...	...	4.41	Plumb Point L. H. ...	8.41	4.37	18	8	3.71
						Port Royal N. Hospital	5.84	2.10	18	7	...
						Ferry	4.39	1.32	18	9	1.46
						Lawrencefield	4.62	1.75	4	4	...
						Spanish Town	4.47	1.37	3	10	4.37
						Hog Hole Pen	5.77	1.50	3	7	5.23
						Browns Hall	6.97	1.03	12	14	...
						Old Harbour	7.27	1.25	2	9	6.21
						Moreland Estate	14.77	2.96	12	14	...
						May Pen	15.13	3.64	12	13	4.16
						Denbigh	...	...	...	...	4.68
						Parnassus	16.74	3.50	3	14	...
						Amity Hall	17.70	3.22	3	13	...
						New Yarmouth	12.35	2.78	12	9	2.46
						Rest	20.93	4.65	9	15	...
						Victoria Town	13.42	2.23	19	11	4.22
						Stone's Hope	14.89	3.14	3	14	8.94
						Newport, Manchester.	14.02	2.15	6	14	5.27
						Alligator Pond	6.84	1.63	19	7	3.84
						Potsdam	...	...	...	...	5.11
						Long Hill	6.71	2.67	6	12	5.18
						Pepper	8.47	2.50	9	10	4.33
						Torrington	...	...	...	...	2.39
						Bethlehem, St. Eliz.	8.22	3.53	4	8	...
						Santa Cruz	6.29	1.16	9	14	5.02
						Pedro Plains	5.77	1.80	3	6	...
						Black River	2.63	0.78	3	8	3.36
						Spring Hill	3.57	1.00	8	10	...
						Font Hill	2.03	0.60	2	4	3.76
						Peter's Ville	5.11	1.41	2	13	6.18
						Salem	...	...	...	...	...
						Mount Edgecombe	4.38	1.11	2	11	5.91
						Bluesfields	7.34	1.72	2	7	...
						Sweet River	5.17	1.24	2	10	6.83
						Cornwall	7.76	2.00	22	12	...
						Windsor, Sav.-la-Mar	5.33	1.65	9	12	6.26
						Sav.-la-Mar P.W.D.	7.15	2.02	9	14	4.44
						Retreat	5.95	1.66	3	13	5.90
						Spring Valley	24.73	3.55	18	20	...
						Negril Point L. H.	3.82	1.09	3	14	...
Means	11.93	..	..	..	7.77	Means	7.95	...	...	...	4.70

NOTES.

COMPARATIVE TABLE OF RAINFALL.
(Based upon the "Average" Stations only.)

	JUNE	
	1902.	Average.
	In.	In.
North Eastern Division	14.06	8.09
Northern	7.18	4.41
West Central	11.93	7.77
Southern	7.96	4.70
Means	10.28	6.24

The Rainfall for May was therefore very much above the average for all parts of the Island. The greatest rainfall 33.03 inches was at Fellowship in the North Eastern division, while the lowest rainfall was 2.00 inches at Fonthill in Southern division.

WEATHER REPORT

, 1902.

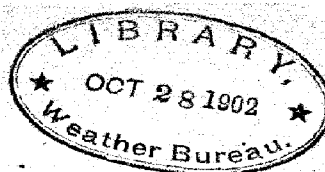
Returns sent up too late
for publication in
Report.

	Total fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.
		Amount.	Date.	
Great Valley, March	5.92	1.77	9	6
Spring Hill, April	8.14	2.02	10	8
Spring Valley, April	5.85	4.90	18	3
Spring Hill, May	17.64	4.50	7	15
Spring Valley, May	13.55	2.85	14	12
Moore Town, May	16.24	3.88	7	17
Spring, May	0.50	0.30	19	3
Hope Gardens, May	5.34	1.56	12	9

H. H. COUSINS.

Government Laboratory,
Kingston.

No. 282.



JAMAICA

WEATHER REPORT

FOR THE MONTH OF

JULY, 1902.

METEOROLOGICAL RESULTS.

The Bar-pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus; the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

STATION.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
Morant Point Light House	ft. 8	in. 29.966	in. 29.937	° 82.9	° 87.3	° ...	° ...	° ...	° ...	...	° ...	...	° ...
Negril Point Light House	33	29.966	29.928	79.5	83.0	87.7	73.2	14.5	90.2	1	69.9	24	20.3
Castleton Gardens	496	...	...	73.6	89.9	90.2	64.0	26.2	93	*23	60	*7	33
Hope Gardens	600	29.978	29.918	76.0	86.6	91.4	...	...	94	28	...	...	...
Stony Hill Reformatory	1,400	...	...	72.7	82.9	87.5	69.1	18.4	90	*1	66	3	24
Kempshot	1,773	29.962	29.919	72.3	76.3	81.1	70.1	11.0	83.1	1	65.3	11	17.8
Hill Gardens	4,907	...	...	61.5	68.0	73.5	57.7	15.8	78	*26	56	3	22

STATION.	Elevation.	Dew Point and Humidity.			Rainfall.	Wind per diem.	Wind: direction (from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.						
		7 a.m.		3 p.m.			7 a.m.		3 p.m.		7 a.m.			3 p.m.			
	ft.	°		°	in.	miles		m.		m.	L.	M.	U.	L.	M.	U.	
Morant Point Light House	8	°	---	°	---	2.34	Var.	†10	Var.	†13.9	2.3	2.3	1.1	1.8	2.1	1.2	
Negril Point Light House	33	72.4	79	75.4	78	7.31	201	Var.	5.2	Var.	8.1	0.9	1.2	3.4	1.6	5.6	0.6
Castleton Gardens	496	69.5	91	76.3	78	3.99	---	---	---	---	---	---	---	---	---	---	
Hope Gardens	600	69.3	78	70.3	60	2.03	---	---	---	---	---	---	---	---	---	---	
Stoay Hill Reformatory	1,400	70.3	91	72.3	71	3.02	---	---	---	---	---	---	---	---	---	---	
Kempshot	1,773	66.7	83	70.1	82	5.51	152	E	3.3	E	3.3	1.6	0.3	2.8	0.7	6.9	1.0
Hill Gardens	4,907	52.6	60	62.6	84	1.28	---	---	---	---	---	---	---	---	---	---	

* And on other days. † Estimated.

RAINFALL FOR JULY, 1902.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to tables recently prepared. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each Division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island embracing the four Divisions.

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North Eastern Division	-	25
Northern and Central	-	22
West Central	-	26
Southern	-	27

100

NORTH-EASTERN DIVISION.	JULY, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Hordley	3.65	0.98	18	9	7.26
Manchioneal	...	...	...	...	8.24
Fair Prospect	4.58	1.50	3	12	...
Bath	5.69	1.58	18	16	10.80
Moore Town	20.27	3.00	18	20	...
Port Antonio	11.78	1.58	2	15	11.69
Fellowship	22.56	4.14	4	23	16.81
Johnson River Bridge	...	...	...	...	...
Shrewsbury	...	...	...	...	...
Cedar Valley, St. Thos	1.60	0.45	3	7	8.62
Hill Gardens	1.28	0.78	3	3	4.04
Buff Bay	10.23	2.25	4	10	8.04
Greenvale	...	...	...	...	...
Mt. Holstein	...	...	...	...	...
Hardware Gap	5.54	...	...	...	4.82
Irish Town	2.34	2.10	24	2	...
Annotto Bay	6.26	2.00	3	11	4.96
Stony Hill Reft.	3.02	0.96	17	9	5.53
Castleton Gardens	3.99	1.54	10	9	6.43
Lawrence Tavern	3.68	1.22	23	8	5.96
Carew Castle	3.17	0.63	4	13	...
Water Valley	6.76	2.10	4	7	...
Richmond, St. Mary	5.03	2.65	3	13	4.25
Kendal, St. Mary	...	...	...	...	...
Gayle, P.W.D.	2.13	0.80	3	8	2.99
Rio Hoe	2.48	0.93	3	11	4.62
Unity Valley	3.96	1.19	11	15	5.79
Moneague	4.29	0.95	28	11	4.81
Claremont	3.25	1.32	11	9	4.21
Albion	2.79	0.89	11	13	4.41
Averham Park	3.67	1.26	11	8	3.74
Ballintoy	2.21	0.87	18	7	3.49
Means	5.16	...	...	...	6.32

NORTHERN DIVISION.

JULY, 1902.

	Total Fall.	Greatest fall in 24 hours		Days on which 0.01 or more fell.	Average
		Amount.	Date.		
	In.	In.			In.
Port Maria	5.61	1.05	19	16	4.18
Ocho Rios	1.97	0.74	3	7	...
Drax Hall	4.70	1.06	18	10	2.76
St. Ann's Bay	1.78	1.10	17	5	3.37
Richmond Estate	3.08	0.50	18	11	2.28
Llandoverly	2.15	0.45	3	8	1.91
Southfield	...	...	...	...	...
Brown's Town	2.94	0.93	11	12	3.31
Hyde Park	7.06	1.40	29	8	...
Dry Harbour	1.14	0.60	11	4	...
Chewmagna	2.81	0.58	31	11	...
Home Castle	1.97	0.60	11	5	2.19
Richmond Pen	2.07	0.80	30	4	3.12
Mahogany Hall	3.17	0.71	23	9	4.12
Brampton Bryan	3.08	1.30	18	4	2.22
Bryan Castle	1.51	0.40	18	6	1.80
Braco	1.14	0.42	18	4	1.86
Arcadia	1.93	0.95	17	4	2.03
Harmony Hall	1.25	0.50	17	4	1.57
Lancaster	1.55	0.55	3	3	2.09
Vale Royal	2.11	1.01	17	6	3.07
Colchis Pen	4.97	2.48	30	5	3.18
Hyde	2.40	0.95	17	4	5.06
Georgia	1.18	0.65	17	2	2.41
Long Pond	1.55	0.60	31	4	...
Steelfield	1.99	0.68	17	8	3.06
Oxford	0.77	0.27	31	6	2.41
Cambridge	1.17	0.40	18	7	3.33
Lottery	1.08	0.30	31	6	2.39
Falmouth P.W.D.	0.30	0.14	18	4	1.67
Holland Pen	0.25	0.15	17	2	1.91
Golden Grove, Trel.	...	...	...	...	3.83
Tilston	...	...	...	...	3.44
Orange Valley	0.05	0.05	18	1	1.89
Kent	0.52	0.20	18	4	1.78
Dundee	0.60	0.40	11	2	2.68
Phoenix	1.79	0.37	22	7	4.46
Gales Valley	...	...	...	...	4.27
Canaan	2.63	0.73	17	7	3.14
Lima	1.00	0.50	31	8	...
Content	0.70	0.30	3	4	2.20
Gullsbro'	...	...	...	...	4.24
Moor Park	1.59	0.48	18	7	...
Success	0.31	0.18	19	3	1.63
Cinnamon Hill	0.50	0.30	3	2	1.11
Rose Hall	0.30	0.30	3	1	1.00
Running Gut	0.98	0.47	18	3	1.07
Spring	...	...	...	...	1.95
Ironshore	1.30	0.90	18	3	1.78
Montego Bay	2.71	0.92	18	9	3.68
Fairfield, St. James	2.95	0.80	12	12	4.00
Anchovy	5.24	1.33	30	10	5.57
Round Hill	7.65	2.65	18	9	4.11
Tryall	3.82	1.22	18	9	4.68
Sandy Bay	5.84	2.25	11	9	5.46
Lucea	6.81	1.96	3	11	4.36

		JULY, 1902.							JULY, 1902.				
CENTRAL SUB-DIVISION		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.	SOUTHERN DIVISION.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
			Amount.	Date.						Amount.	Date.		
	In.	In.				In.		In.	In.			In.	
Headworks, Rio Cobre	0.85	0.53	24	5	4.19								
Linstead	7.57	1.40	17	19	6.13								
Berkshire Hall	3.82	1.00	23	12	...	Morant Point L. H. ...	2.34	0.72	19	17	3.24		
Point Hill	6.01	1.50	17	6	6.43	Morant Bay	3.17	0.46	3	19	6.52		
Worthy Park	5.11	1.40	6	6	4.34	Easington	2.99	0.60	31	10	6.88		
Kellets	4.18	1.13	17	9	...	Bull Bay	0.26	0.26	26	1	2.71		
Chapelton	...	...	...	...	4.35	Gordon Town	0.71	0.49	24	3	3.29
Lower Chapelton	1.43	0.50	6	6	4.28	Hope Gardens	2.03	0.95	10	4	2.93		
Condia	4.53	0.75	16	10	...	Halfway Tree	0.65	0.35	9	3	2.06		
Savoy House	1.86	0.58	30	10	...	Lunatic Asylum	0.21	0.20	3	2	...		
Mears	3.82	1.34	15	14	...	Kingston Gardens	0.32	0.32	3	1	...		
Cave Valley	4.91	0.65	11	14	4.95	Public Works Office...	0.20	0.10	2, 3	2	1.87		
						Plumb Point L. H. ...	0.19	0.14	3	3	2.08		
Means	2.55	...	...	...	3.10	Port Royal N. Hospital	0.25	0.20	3	2	...
						Ferry	0.96	0.41	30	3	2.31		
						Lawrencefield	...	...	...	...	...
WEST CENTRAL DIVISION.						Spanish Town	0.50	0.28	10	2	2.73		
Mcho	2.18	1.36	30	9	...	Hog Hole Pen	1.80	1.50	10	2	2.91		
Baillieston	4.16	0.59	21	10	...	Browns Hall	3.99	1.45	16	6	...		
Farm Plantation	1.13	0.85	10	3	5.91	Old Harbour	0.80	0.60	24	2	3.05		
Brokenhurst	1.28	0.70	31	3	7.06	May Pen	0.98	0.30	9, 30	5	4.01		
Christiana	2.22	0.60	26	9	4.90	Denbigh	0.00	0.00	...	...	3.13
Kendal, Manchester	4.51	1.20	16	12	6.14	Amity Hall	0.12	0.12	21	1	...		
Mandeville P.W.D.	1.50	0.44	30	13	6.24	New Yarmouth	0.10	0.10	11	1	2.93		
Carlton, Mandeville	1.22	0.58	30	6	...	Rest	1.77	0.77	9	3	...		
Fairfield, Manchester	1.32	0.83	30	6	...	Victoria Town	0.80	0.50	10	4	3.36		
Fair View	1.16	0.38	30	9	...	Stone's Hope	1.36	1.07	10	4	5.28		
Ulster Spring	...	...	...	...	4.71	Newport, Manchester.	1.21	1.09	10	2	5.82
Troy	5.57	1.05	30	11	7.99	Alligator Pond	0.00	0.00	...	...	3.64
Fontabelle, Trelawny.	5.25	1.25	18	11	5.46	Potsdam	1.64	1.00	10	4	2.99		
Windsor Pen, Trel.	4.37	1.65	21	9	6.69	Long Hill	2.56	2.56	10	1	3.95		
Balaclava	2.02	0.46	21	7	6.04	Pepper	1.05	0.60	9	4	3.45		
Elim	1.55	0.26	17	7	6.96	Torrington	...	...	...	...	3.32
Appleton	2.25	0.80	28	7	7.58	Bethlehem, St. Eliz.	3.69	2.09	24	4	...		
Maggotty	5.15	0.97	30	13	8.98	Santa Cruz	2.37	0.77	24	6	5.99		
Spring Vale, St. James	5.63	1.17	17	9	8.83	Pedro Plains	1.40	1.10	10	2	...		
Maroon Town, St. Jas.	...	...	...	...	12.48	Black River	2.74	1.55	9	7	5.03
Kempshot	5.51	0.82	12	19	6.39	Spring Hill	5.43	1.64	19	10	...		
Kepp	...	...	...	...	9.64	Font Hill	3.80	1.10	16	8	6.66
Kew Park	...	...	...	...	11.14	Peter's Ville	3.84	0.94	30	12	7.25
Hazelymph	10.39	1.50	10	16	9.49	Mount Edgecombe	3.73	1.06	6	13	6.99		
King Gate	5.89	1.05	30	10	...	Bluefields	6.75	1.23	6	10	...		
Darliston	14.63	2.50	11	21	12.72	Sweet River	8.13	1.36	10	17	7.43		
Whithorn	9.98	1.50	13	19	11.69	Cornwall	8.72	1.02	3	17	7.95		
Galloway	...	...	...	...	...	Windsor, Sav.-la-Mar	7.44	1.35	6	18	6.99
Lethe Bridge	17.42	3.00	16	18	7.72	Sav.-la-Mar P.W.D.	6.62	0.92	5	16	6.10		
Copse	...	...	...	...	7.43	Retreat	5.42	0.79	9	14	8.19
Cacoon Castle	...	...	...	...	8.10	Spring Valley	21.81	4.50	4	15	...
Great Valley	11.05	2.60	11	19	10.61	Negril Point L. H.	7.31	1.71	6	13	...		
Brownsville	10.41	1.87	3	16	...								
Fontabelle	9.93	1.84	18	16	8.55								
Morgans Bridge	10.45	1.61	11	23	11.44								
King's Valley	11.05	1.90	11	18	11.89								
Kings Vale Police St.	8.91	1.12	23	16	...								
Means	3.89	...	...	...	7.92	Means	2.19	...	...	...	4.40

* Average for 5 years.

NOTES.

COMPARATIVE TABLE OF RAINFALL.
(Based upon the "Average" Stations only.)

	JULY.	
	1902.	Average.
	In.	In.
North Eastern Division	5.16	6.32
Northern	2.55	3.10
West Central	3.89	7.92
Southern	2.19	4.40
Means	3.44	5.43

The Rainfall for July was therefore much below the average for the Island. The greatest rainfall 22.56 inches was at Fellowship in the North-Eastern Division while at Denbigh and Alligator Pond in the southern division no rain fell.

A slight shock of Earthquake was felt at Unity Valley at 4.50 a.m., on the 11th.

UNITED STATES STATION, HALFWAY TREE.

JULY, 1902.	8 A.M.	8 P.M.
Bar Pressure	29.98	29.95
Temperature	79.4	79.2
Dew Point	68.4	70.6
Humidity	69.5	75.7
Cloud	4.1	2.3

Mean Max. Temp. 89.7
 Mean Min. Temp. 71.1
 Mean Range 18.6
 Extreme Temps. { Max. 93 on the 26th.
 Min. 68 on the 8th.
 Mean Wind per diem 150 miles.
 Max. Wind S.E. 26 miles per hour.

WEATHER REPORT No. 281. JUNE, 1902.

Return omitted in that Report.	Total fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.
		Amount.	Date.	
Condia	15.90	2.90	4	16

CORRIGENDA.

Weather Report No. 279 read 68.5 dew point 7 a.m. Negril Pt. Light House.

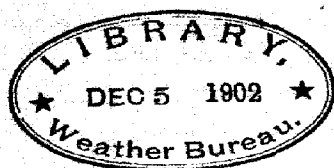
No. 281 page 1 read 88 Ex. Max. 14 * date, 24 range, Stony Hill Reft.

Page 4 read the rainfall for "June" instead of May.

For Returns sent up too late for publication in Report, read Returns omitted in Report.

H. H. COUSINS, Island Chemist.

No. 283.



JAMAICA

WEATHER REPORT

FOR THE MONTH OF

AUGUST, 1902.

METEOROLOGICAL RESULTS.

The Bar-pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus; the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

STATION.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Point Light House	8	29.932	29.892	83.2	88.3	...	...	...	...	...	...	...	...
Negril Point Light House	33	29.932	29.898	78.8	84.0	87.6	73.0	14.6	89.9	1.9	70.9	6	19
Castleton Gardens	496	...	...	74.3	85.8	89.1	...	...	93	*1	...	...	...
Hope Gardens	680	29.961	29.899	75.5	83.9	89.9	73.1	16.8	96	25	69	*16	27
Stony Hill Reformatory	1,400	...	...	72.8	78.4	86.8	68.9	17.4	90	*1	66	12	24
Kempshot	1,773	29.928	29.884	73.2	76.3	81.9	70.3	11.6	84.6	31	68.3	20	16.3
Hill Gardens	4,907	...	...	63.2	67.4	71.8	58.2	13.6	77	7	57	18	20

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction (from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.	3 p.m.					7 a.m.	3 p.m.			7 a.m.	3 p.m.				
	ft.	°	°	°	in.		miles	Var.	m.	Var.	m.	L.	M.	U.	L.	M.	U.
Morant Point Light House	8	...	...	...	4.41	...	...	Var.	8.7	Var.	11.2	2.5	2.0	1.0	1.9	2.0	1.1
Negril Point Light House	33	72.9	82	74.3	78	6.77	172	Var.	5.0	Var.	7.8	...	0.9	8.9	.7	8.6	.3
Castleton Gardens	496	70.9	92	75.6	74	9.91	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	680	68.1	78	70.7	64	5.96	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	70.1	92	71.0	78	6.08	...	...	...	...	...	...	...	...	...	...	...
Kempshot	1,773	68.1	81	70.2	84	6.98	131.0	E	6.3	Var.	3.1	1.1	0.1	1.9	1.9	5.9	1.0
Hill Gardens	4,907	59.0	80	61.1	81	2.97	...	...	...	...	...	...	...	...	...	...	...

* and on other days. † Estimated.

RAINFALL FOR AUGUST, 1902.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to tables recently prepared. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each Division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four Divisions.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	—	25
Northern and Central	—	22
West Central	—	26
Southern	—	27

100

NORTH-EASTERN DIVISION.	AUGUST, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Hordley	7.57	1.80	11	13	9.68
Manchioneal	9.51	4.55	11	7	7.46
Fair Prospect	3.93	1.80	11	8	...
Bath	9.58	3.59	11	10	9.55
Moore Town	19.38	4.84	11	15	...
Port Antonio	13.88	4.50	11	12	10.67
Fellowship	17.52	5.00	11	13	10.66
Johnson River Bridge	12.10	5.12	12	14	...
Shrewsbury	...	...	...	...	...
Cedar Valley, St. Thos	7.55	2.94	11	9	7.76
Hill Gardens	2.97	1.90	10	10	8.36
Buff Bay	4.34	1.85	12	7	4.87
Greenvale	7.90	2.75	12	12	...
Mt. Holstein	5.74	2.96	10	13	...
Hardware Gap	4.57	...	...	...	5.32
Irish Town	4.98	1.37	11	6	...
Annotto Bay	2.82	0.65	17	7	3.72
Stony Hill Reft.	6.08	1.40	11	16	10.08
Castleton Gardens	9.91	2.41	28	14	10.70
Lawrence Tavern	8.68	2.08	16	15	7.84
Carew Castle	9.81	2.40	22	19	...
Water Valley	2.91	0.63	12	10	...
Richmond, St. Mary	4.57	0.86	11	9	5.84
Kendal, St. Mary	5.32	2.00	27	5	...
Gayle, P.W.D.	1.37	0.40	12	6	5.56
Bio Hoe	1.53	0.65	10	6	6.58
Unity Valley	2.14	0.43	4	12	6.55
Moneague	2.17	0.67	4	12	5.72
Claremont	3.40	1.15	17	8	6.14
Albion	1.98	0.51	11	9	6.37
Averham Park	1.96	0.62	17	8	4.71
Ballintoy	4.34	1.41	26	13	6.28
Means	5.83	...	...	...	7.26

NORTHERN DIVISION.

	AUGUST, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Port Maria	2.24	0.81	10	8	4.09
Ocho Rios	0.75	0.65	17	2	...
Drax Hall	0.18	0.10	13	2	3.86
St. Ann's Bay	0.90	0.50	9	4	3.27
Richmond Estate	0.86	0.52	10	2	3.85
Llandoverly	0.85	0.85	10	1	3.10
Southfield	...	...	...	...	...
Brown's Town	3.54	1.57	10	8	3.54
Hyde Park	0.00	0.00	...	...	...
Dry Harbour	0.27	0.23	10	2	...
Chewmagna	1.94	0.62	9	10	...
Home Castle	1.95	1.30	26	4	3.72
Richmond Pen	1.00	0.20	12	9	5.27
Mahogany Hall	2.73	0.92	10	10	6.45
Brampton Bryan	1.70	1.30	26	2	3.42
Bryan Castle	1.16	0.51	15	5	3.04
Braco	0.55	0.30	18	3	3.24
Arcadia	1.00	0.44	25	4	3.67
Harmony Hall	0.80	0.35	9	3	2.86
Lancaster	0.45	0.20	27	3	3.49
Vale Royal	1.90	0.55	26	5	4.78
Colchis Pen	3.15	1.45	9	7	5.67
Hyde	2.25	0.60	22	7	5.97
Georgia	1.15	1.05	25	2	3.97
Long Pond	1.14	0.55	10	4	...
Steelfield	1.24	0.43	26	5	3.81
Oxford	0.59	0.20	9	4	3.06
Cambridge	0.52	0.22	9	4	3.81
Lottery	1.30	0.45	31	4	3.69
Falmouth P.W.D.	0.46	0.40	26	2	2.89
Holland Pen	0.39	0.25	9	2	2.81
Golden Grove, Trel.	...	...	...	...	5.62
Tilston	...	...	...	...	5.35
Orange Valley	0.25	0.25	29	1	3.28
Kent	0.30	0.30	22	1	3.16
Dundee	0.70	0.30	10	4	4.15
Phoenix	4.43	0.87	4	10	5.42
Gales Valley	...	...	...	...	5.77
Canaan	3.91	1.34	19	6	4.84
Lima	0.25	0.15	27	2	...
Content	0.57	0.20	22	5	4.59
Guildbro'	...	...	...	...	5.48
Moor Park	2.21	0.74	26	10	...
Success	0.85	0.25	10	2	2.07
Cinnamon Hill	0.60	0.40	10	2	2.11
Rose Hall	0.46	0.36	10	2	1.95
Running Gut	0.59	0.38	10	2	2.64
Spring	...	...	...	...	2.50
Ironshore	0.57	0.30	17	3	4.02
Montego Bay	1.49	0.22	19	11	5.60
Fairfield, St. James	3.20	0.95	10	10	6.17
Anchovy	5.31	1.10	26	12	8.79
Round Hill	3.95	2.10	26	6	6.20
Tryall	4.34	2.82	27	4	6.61
Sandy Bay	2.40	1.61	26	4	5.44
Lucea	3.83	1.29	18	10	6.09

CENTRAL SUB-DIVISION						SOUTHERN DIVISION.					
AUGUST, 1902.						AUGUST, 1902.					
Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.	
	Amount.	Date.					Amount.	Date.			
In.	In.			In.		In.	In.			In.	
Headworks, Rio Cobre	4.89	1.83	30	9	5.87						
Linstead	6.97	2.96	11	18	7.59						
Berkshire Hall	3.19	1.05	22	10	...	Morant Point L. H. ...	4.41	1.81	15	5.28	
Point Hill	13.28	2.50	25	13	6.62	Morant Bay	10.81	5.31	11	5.13	
Worthy Park	3.31	2.05	11	2	4.75	Easington	6.72	2.90	11	5.19	
Kellets	...	...	...	...	...	Bull Bay	3.86	2.40	11	2.48
Chapelton	...	...	...	...	7.53	Gordon Town	6.07	1.77	19	3.01
Lower Chapelton	4.67	1.55	11	9	5.47	Hope Gardens	5.96	1.39	18	5.71	
Condia	5.50	2.09	11	9	...	Halfway Tree	4.54	1.20	30	2.60	
Savoy House	4.16	0.96	16	11	...	Lunatic Asylum	4.07	1.26	11	...	
Mears	10.19	2.40	16	10	...	Kingston Gardens	3.81	1.81	12	...	
Cave Valley	3.59	1.30	16	7	7.40	Public Works Office...	3.45	0.83	11	4.05	
Means	2.18	...	...	...	4.43	Plumb Point L. H. ...	3.07	1.54	11	3.74
						Port Royal N. Hospital	2.90	1.85	11	...	
						Ferry	3.82	1.30	11	2.70	
						Lawrencefield	...	...	...	...
						Spanish Town	3.14	1.00	11	4.39	
						Hog Hole Pen	2.96	1.00	11	4.92	
						Browns Hall	6.43	2.50	12	...	
						Old Harbour	5.15	2.30	11	4.07	
						May Pen	2.69	0.95	11	3.74	
						Hermitage, Clarendon	...	...	...	...
						Denbigh	1.28	0.73	11	5.09	
						Amity Hall	2.88	1.39	12	...	
						New Yarmouth	1.60	1.16	12	2.95	
						Rest	1.64	0.92	12	...	
						Victoria Town	1.97	0.68	11	3.20	
						Stone's Hope	...	...	...	6.08
						Newport, Manchester.	2.69	0.98	12	4.83	
						Alligator Pond	1.57	1.07	12	3.42	
						Potsdam	4.28	2.40	11	4.51	
						Long Hill	4.89	1.75	12	6.61	
						Pepper	3.20	0.95	11	6.50	
						Torrington	...	...	...	4.52
						Bethlehem, St. Eliz.	3.54	1.53	19	4	
						Santa Cruz	5.37	2.55	19	9.24	
						Pedro Plains	1.94	1.00	13	4	
						Black River	5.88	2.16	11	5.84	
						Spring Hill	11.06	2.87	30	18	
						Font Hill	5.15	1.25	7	10	
						Peter's Ville	8.70	1.95	20	17	
						Salem	...	...	...	...
						Mount Edgecombe	8.51	1.32	9	19	
						Bluefields	9.15	2.37	11	11	
						Sweet River	10.63	1.75	21	21	
						Cornwall	11.76	1.80	27	16	
						Windsor, Sav.-la-Mar	7.43	1.25	21	15	
						Sav.-la-Mar P.W.D.	6.59	1.22	17	19	
						Retreat	9.72	1.44	31	18	
						Spring Valley	7.88	3.59	21	10	
						Negril Point L. H.	6.77	1.66	11	14	
Means	8.43	...	...	...	9.52	Means	5.18	...	...	5.19

* Average for 5 years.

NOTES.

COMPARATIVE TABLE OF RAINFALL.
(Based upon the "Average" Stations only.)

	AUGUST.	
	1902.	Average.
	In.	In.
North Eastern Division	5.83	7.26
Northern	2.18	4.43
West Central	8.43	9.52
Southern	5.18	5.19
Means	5.39	6.60

The Rainfall for August was therefore somewhat below the average for the whole Island. The greatest rainfall occurred at Moore Town in the North Eastern Division and was 19.38 inches, while no rain fell at Hyde Park in the Northern Division.

UNITED STATES STATION, HALFWAY TREE.

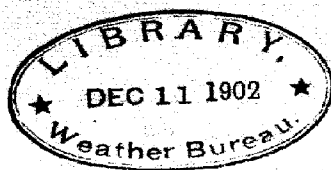
AUGUST, 1902.	8 A.M.	8 P.M.
Bar Pressure	29.95	29.92
Temperature	79.0	78.5
Dew Point	68.2	71.8
Humidity	70.6	81.0
Cloud	3.0	2.4

Mean Max. Temp. 88.6
 Mean Min. Temp. 71.0
 Mean Range 17.6
 Extreme Temps. { Max. 93 on the 8th.
 { Min. 70 on the 24th.
 Mean Wind per diem 149 miles.
 Max. Wind S.E. 27 miles per hour.

WEATHER REPORT NO. 282. JULY, 1902.

Return omitted in that Report.	Total fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.
		Amount.	Date.	
Ulster Spring	3.72	0.70	5	12

H. H. COUSINS.



No. 284.



JAMAICA

WEATHER REPORT

FOR THE MONTH OF

SEPTEMBER, 1902.

METEOROLOGICAL RESULTS.

The Bar-pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

STATION.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Point Light House	8	29.922	29.884	84.0	89.3	...	...	...	...	...	...	...	...
Negril Point Light House	38	29.929	29.880	78.5	83.9	88.1	73.2	14.9	89.8	16	69.8	24	20
Castleton Gardens	496	29.909	29.878	74.0	82.2	89.0	...	...	90	*1	...	...	...
Hope Gardens	680	29.959	29.896	75.2	82.5	89.8	70.4	19.4	93	*5	67	*19	26
Stony Hill Reformatory	1,400	...	...	73.6	79.7	87.9	69.3	18.0	89	*9	68	*1	31
Kempshot	1,773	29.920	29.878	73.4	75.7	82.1	71.1	11.1	84.7	1	65.7	20	19
Hill Gardens	4,907	...	...	63.7	67.5	72.2	59.3	12.9	77	6	57	20	20

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction (from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°	°	°	°	in.	miles	E	m.	E	m.	L.	M.	U.	L.	M.	U.
Morant Point Light House	8	...	...	...	...	2.77	...	E	8.2	E	10.3	1.8	2.0	1.1	1.5	1.9	1.0
Negril Point Light House	38	73.2	84	73.9	72	7.14	172	Var.	5.9	Var.	6.9	0.7	1.2	3.6	2.3	5.7	1.0
Castleton Gardens	496	70.4	90	76.2	88	12.12	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	680	67.8	76	72.6	71	3.86	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	70.2	89	74.8	85	9.10	...	...	...	...	...	...	...	...	...	...	...
Kempshot	1,773	68.2	71.4	84	86	8.11	130	E	4.7	E	4.2	0.4	0.1	3.7	2.7	4.6	1.8
Hill Gardens	4,907	58.3	83	63.2	87	1.70	...	...	...	...	...	...	...	...	...	...	...

* And on other days.

RAINFALL FOR SEPTEMBER, 1902.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to tables recently prepared. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each Division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four Divisions.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:

North Eastern Division	-	25
Northern and Central	-	22
West Central	-	26
Southern	-	27

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NORTH-EASTERN DIVISION.	SEPTEMBER, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Hordley	6.86	3.45	10	12	11.13
Manchioneal	4.65	1.07	16	8	11.54
Fair Prospect	6.13	2.40	16	15	...
Bath	...	...	...	...	...
Moore Town	8.01	1.88	16	12	...
Port Antonio	4.58	0.97	11	12	10.58
Fellowship	10.20	2.88	16	14	15.10
Johnson River Bridge	1.85	0.50	23	8	...
Shrewsbury	...	...	...	...	...
Cedar Valley, St. Thos	0.92	0.72	3	3	12.24
Hill Gardens	1.70	0.66	28	10	9.30
Resource	...	...	...	...	...
Buff Bay	1.95	0.50	16	7	5.64
Greenvale	1.52	0.55	16	9	...
Mt. Holstein	4.19	2.39	16	11	...
Hardware Gap	4.82	...	...	...	8.50
Irish Town	4.32	1.20	15	6	...
Annotto Bay	0.37	0.20	3	3	4.57
Stony Hill Ref.	9.10	1.20	25	16	9.88
Castleton Gardens	12.12	3.30	4	17	10.87
Lawrence Tavern	10.78	1.37	10	17	8.65
Quebec	...	...	...	...	3.48
Carew Castle	13.65	1.75	16	21	...
Water Valley	0.20	0.20	16	1	...
Richmond, St. Mary	3.02	0.46	3	10	4.41
Kendal, St. Mary	9.65	3.80	23	8	...
Gayle, P.W.D.	1.69	0.50	3	8	6.16
Rio Hoe	6.20	1.98	1	12	6.43
Unity Valley	5.47	2.5	8	12	8.14
Moneague	5.95	1.96	1	13	7.48
Claremont	3.52	1.30	2	11	6.16
Albion	9.98	2.62	1	11	6.82
Averham Park	4.69	1.85	2	12	4.73
Ballintoy	6.62	3.17	1	11	7.10
Means	5.48	...	...	...	8.34

SEPTEMBER, 1902.

NORTHERN DIVISION.

	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average
		Amount.	Date.		
	In.	In.			In.
Port Maria	1.40	0.47	16	5	3.64
Ocho Rios	3.77	1.95	2	4	...
Drax Hall	0.97	0.54	21	4	3.82
St. Ann's Bay	1.87	0.80	21	6	2.95
Richmond Estate	...	...	...	...	4.11
Llandoverly	1.80	1.02	19	3	3.76
Southfield	3.19	1.50	19	7	...
Brown's Town	4.71	2.24	19	12	5.29
Hyde Park	8.20	1.40	11	9	...
Dry Harbour	1.94	1.00	19	5	...
Chewmagna	5.90	2.00	17	17	...
Home Castle	4.25	1.77	19	7	4.48
Richmond Pen	6.92	1.30	18	13	5.96
Mahogany Hall	10.11	2.09	29	15	6.22
Brampton Bryan	7.02	1.97	21	9	3.81
Bryan Castle	2.38	0.64	21	9	3.43
Braco	1.08	0.25	21	8	3.63
Arcadia	5.18	1.60	21	8	4.30
Harmony Hall	1.95	0.55	21	8	3.87
Lancaster	1.80	0.45	23	6	4.25
Vale Royal	5.01	1.45	23	12	4.84
Colchis Pen	2.95	2.10	17	4	5.11
Hyde	5.48	1.85	12	11	6.44
Georgia	3.31	1.28	2	6	4.11
Long Pond	4.04	1.62	12	8	...
Steelfield	4.41	1.82	2	12	4.39
Oxford	1.56	0.59	2	7	4.08
Cambridge	3.73	0.76	4	10	4.68
Lottery	3.00	0.57	8	9	4.47
Falmouth P.W.D.	0.76	0.33	3	6	3.28
Holland Pen	1.43	0.54	3	6	3.59
Golden Grove, Trel.	...	...	...	...	...
Tilston	...	...	...	...	6.23
Orange Valley	2.15	0.60	23	6	4.09
Kent	...	...	...	...	4.58
Dundee	4.50	1.60	29	8	5.34
Phoenix	5.55	1.	21	12	7.45
Gales Valley	...	...	...	...	7.06
Canaan	5.07	2.40	4	8	8.06
Lima	3.10	1.00	2	7	...
Content	2.07	1.30	2	8	5.28
Gullsbro'	...	...	...	...	7.60
Moor Park	3.82	1.40	12	9	...
Success	0.50	0.50	21	1	3.77
Cinnamon Hill	1.05	0.85	23	9	4.09
Rose Hall	0.65	0.30	25	3	3.88
Running Gut	1.11	0.47	17	7	4.11
Spring	...	...	...	...	5.47
Ironshore	1.09	0.25	2	6	4.59
Montego Bay	3.88	1.80	21	6	7.47
Fairfield, St. James	4.90	1.40	21	10	7.84
Anchovy	6.07	1.20	4	9	8.52
Round Hill	6.56	3.55	4	11	5.56
Tryall	7.19	2.45	4	11	6.76
Sandy Bay	6.45	1.18	10	13	6.33
Lucea	4.67	2.21	4	13	6.62

CENTRAL SUB-DIVISION						SOUTHERN DIVISION.					
SEPTEMBER, 1902.						SEPTEMBER, 1902.					
Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.	
	Amount.	Date.					Amount.	Date.			
In.	In.			In.		In.	In.			In.	
Headworks, Rio Cobre	7.35	2.30	18	13	5.89	Morant Point L. H. ...	2.77	1.48	16	18	7.64
Linstead	6.52	1.55	17	19	7.63	Morant Bay	1.60	0.24	30	18	8.23
Berkshire Hall	5.68	1.35	17	15	...	Easington	0.65	0.25	15	4	8.11
Point Hill	4.98	1.22	18	18	11.19	Bull Bay	2.66	2.66	15	1	3.48
Harker's Hall	...	...	...	...	...	Gordon Town	3.00	2.12	15	9	7.46
Worthy Park	3.26	1.42	8	5	7.34	Hope Gardens	3.86	1.06	26	12	6.54
Kellets	...	...	...	...	...	King's House	...	...	...	...	5.03
Chapelton	4.11	1.00	14	12	7.27	Halfway Tree	2.73	0.72	1	9	4.09
Lower Chapelton	4.20	1.65	14	8	7.77	Lunatic Asylum	0.48	0.19	18	5	...
Condia	6.75	1.50	24	11	...	Kingston Gardens	2.04	1.07	27	5	...
Savoy House	5.95	2.9	14	16	...	Public Works Office...	1.75	0.65	27	6	3.96
Mears	...	...	...	...	...	Plumb Point L. H. ...	0.34	0.27	15	4	3.63
Cave Valley	5.39	1.30	12	16	7.45	Port Royal N. Hospital	...	...	...	...	...
Means	3.78	...	...	...	5.33	Ferry	3.01	0.72	1	7	4.92
						Lawrencefield	...	...	...	...	...
WEST CENTRAL DIVISION.						Spanish Town	0.53	0.21	14	5	4.90
Mocho	...	...	...	...	...	Hog Hole Pen	1.23	0.30	20	7	6.84
Baillieston	6.47	1.30	25	16	...	Browns Hall	4.86	2.10	18	8	...
Farm Plantation	3.57	1.90	19	6	8.32	Old Harbour	1.76	0.71	15	3	6.50
Brokenhurst	7.58	1.38	16, 18	10	8.48	May Pen	2.72	1.70	18	10	6.51
Christiana	5.87	0.92	14	16	9.45	Hermitage, Clarendon	...	...	...	...	...
Kendal, Manchester	6.44	1.50	27	10	10.12	Denbigh	1.48	0.98	14	2	5.39
Mandeville P.W.D.	7.69	2.21	14	14	9.76	Amity Hall	1.20	0.39	8	7	...
Carlton, Mandeville	...	...	...	...	...	New Yarmouth	...	...	...	...	5.68
Fairfield, Manchester	4.78	1.98	14	13	...	Rest	0.81	0.48	3	4	...
Fair View	2.19	0.76	18	8	...	Victoria Town	1.09	0.60	15	3	6.66
Ulster Spring	4.37	1.00	29	9	7.70	Stone's Hope	4.21	2.78	18	7	7.94
Troy	19.15	3.83	10	16	11.86	Newport, Manchester.	5.52	2.40	18	6	7.12
Fontabelle, Trelawny.	4.90	1.20	21	16	11.44	Alligator Pond	3.23	1.97	15	3	4.06
Windsor Pen, Trel.	5.08	0.90	21	15	9.64	Potsdam	4.66	2.65	1	8	5.21
Balaclava	10.48	2.45	2	11	9.64	Long Hill	8.41	2.00	18	13	7.94
Elim	6.98	1.33	29	10	13.76	Pepper	5.67	1.70	14	12	8.09
Appleton	15.17	2.65	1	15	11.32	Torrington	5.97	1.70	18	10	5.19
Maggotty	14.71	3.08	29	20	10.91	Bethlehem, St. Eliz.	5.96	1.52	18	12	...
Spring Vale, St. James	...	...	...	...	10.61	Santa Cruz	15.34	2.4	18	16	9.47
Maroon Town, St. Jas.	...	...	...	...	2.59	Pedro Plains	3.51	1.62	18	4	...
Kempshot	8.11	3.90	19	20	10.09	Black River	8.45	1.43	18	14	5.24
Kepp	...	...	...	...	11.62	Spring Hill	10.87	3.07	1	15	...
Kew Park	...	...	...	...	11.74	Font Hill	12.20	2.65	29	10	4.84
Hazelymph	15.17	2.90	8	23	9.69	Peter's Ville	12.02	1.66	18	19	8.63
King Gate	6.28	2.04	5	10	...	Salem	...	...	...	...	...
Darliston	17.81	2.32	18	22	12.44	Mount Edgecombe	6.10	0.78	18	21	7.86
Whithorn	9.73	1.95	18	21	11.05	Bluefields	7.71	1.23	30	14	...
Galloway	...	...	...	...	...	Sweet River	7.07	1.48	8	14	7.37
Lethe Bridge	...	...	...	...	12.18	Cornwall	8.76	2.71	8	14	9.07
New Garth	...	...	...	...	...	Windsor, Sav.-la-Mar	7.61	2.12	8	14	7.11
Copse	...	...	...	...	10.72	Sav.-la-Mar P.W.D.	7.7	1.27	30	22	6.64
Cacoon Castle	...	...	...	...	9.93	Retreat	6.12	0.76	8	18	7.69
Great Valley	10.54	2.05	7	16	12.41	Spring Valley	8.48	1.8	7	16	...
Brownsville	18.09	2.70	21	19	...	Negril Point L. H.	7.14	2.50	30	18	...
Fontabelle	...	...	...	...	10.83						
Morgans Bridge	11.51	1.77	29	20	9.86						
King's Valley	9.30	2.50	8	20	12.83						
Kings Vale Police St.	6.76	0.95	4	13	...						
Means	9.70	...	...	...	10.53	Means	4.73	...	...	...	6.35

* Average for 6 years.

NOTES.

COMPARATIVE TABLE OF RAINFALL.
(Based upon the "Average" Stations only.)

	SEPTEMBER.	
	1902.	Average.
	In.	In.
North Eastern Division	5.48	8.34
Northern	3.78	5.33
West Central	9.70	10.53
Southern	4.73	6.35
Means	5.89	7.64

The Rainfall for the whole Island was therefore below the average. The heaviest rainfall recorded was 19.15 inches at Troy in the West Central Division while 0.20 inches fell at Water Valley in the North Eastern Division.

EARTHQUAKES.

Station.	Division.	Date.	Time.
Unity Valley	N.E.	20th	7 p.m.
Albion	"	"	7.20 "
Dundee	N.	"	7 "
Great Valley	W.C.	"	7 "
Brown's Ville	"	21st	6.43 "
Windsor Pen	"	"	7.20 "
Fontebelle, Trel.	"	20th	7.15 "
Negril Pt. Lt. House	S.	"	7.5 "

UNITED STATES STATION, HALFWAY TREE.

SEPTEMBER, 1902.	8 A.M.	8 P.M.
Bar Pressure	29.94	29.91
Temperature	78.8	77.1
Dew Point	69.6	72.5
Humidity	73.9	85.9
Cloud	3.2	1.9

Mean Max. Temp. 89.1

Mean Min. Temp. 71.2

Mean Range 17.9

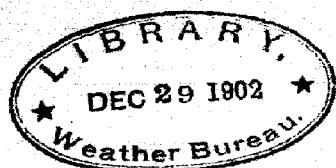
Extreme Temps. { Max. 92 on the 24th.
Min. 69 on the 25th.

Mean Wind per diem 143 miles.

Max. Wind S.E. 25 miles per hour on 28rd

Returns sent up too late for publication before.	Total fall.	1902. Greatest fall in 24 hours.		Days on which 0.01 or more fell.
		Amount.	Date.	
Southfield, April	7.22	2.09	7	9
May	9.28	1.65	4	15
June	8.01	1.57	10	17
July	5.43	2.36	11	10
Aug.	0.88	0.71	10	2
Torrington, June	5.99	2.22	3	10
July	1.34	0.92	10	2
Aug.	2.79	0.72	13	6

H. H. COUSINS, Island Chemist.



No. 285.



JAMAICA

WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1902.

METEOROLOGICAL RESULTS.

The Bar-pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus: the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

STATION.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range.
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Point Light House	8	29.909	29.856	80.7	87.4	...	...	...	...	...	...	...	...
Negril Point Light House	33	29.912	29.855	76.8	83.7	86.7	72.8	13.9	88.6	17	70.1	29	18.5
Castleton Gardens	496	29.901	29.862	74.4	83.0	89.9	...	...	93.8	30	...	...	...
Hope Gardens	680	29.938	29.864	75.8	82.6	88.0	68.8	19.2	91	7	67	*20	24
Stony Hill Reformatory	1,400	...	...	72.3	78.5	85.6	67.9	17.7	88	4	67	*8	21
Kempshot	1,773	29.917	29.852	72.9	75.4	81.2	70.0	11.2	83.3	8	67.1	10	16.2
Hill Gardens	4,907	...	...	62.8	64.7	71.0	58.3	12.7	73	13.22	57	*3	...

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction (from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
	ft.	°	°	°	°	in.	miles	Var.	m.	Var.	m.	L.	M.	U.	L.	M.	U.
Morant Point Light House	8	...	...	...	...	6.84	...	Var.	5.4	Var.	8.2	1.8	2.0	1.2	2.8	1.8	1.0
Negril Point Light House	33	73.5	89	73.1	71	5.58	186	Var.	5.6	Var.	8.7	0.6	0.7	3.7	2.2	5.0	1.5
Castleton Gardens	496	70.8	92	76.2	87	12.60	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	680	68.6	84	72.7	71	2.60	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	69.4	90	71.5	79	10.66	...	...	...	...	...	...	...	...	...	...	...
Kempshot	1,773	67.7	84	71.6	83	9.30	112	E	3.2	E	2.5	1.0	0.2	3.2	1.3	5.0	1.6
Hill Gardens	4,907	69.2	89	68.6	90	7.93	...	...	...	...	...	...	...	...	...	...	...

* And on other days.

RAINFALL FOR OCTOBER, 1902.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to tables recently prepared. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each Division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island embracing the four Divisions.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows: -

North Eastern Division	-	-	25
Northern and Central	-	-	22
West Central	-	-	26
Southern	-	-	27

100

NORTH-EASTERN DIVISION.	OCTOBER, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Hordley	8.83	3.15	30	13	18.22
Manchioneal	...	...	...	...	24.28
Fair Prospect	...	...	...	...	...
Bath	...	...	...	...	23.23
Moore Town	10.23	2.70	9	12	...
Port Antonio	...	...	...	...	15.01
Fellowship	...	...	...	...	19.75
Johnson River Bridge	4.72	1.05	12	14	...
Shrewsbury	5.37	...	...	4	...
Cedar Valley, St. Thos	5.67	6.96	28	13	31.04
Hill Gardens	7.98	2.35	28	13	19.44
Resource	...	...	...	...	...
Buff Bay	...	...	...	...	12.33
Greenvale	...	...	...	...	...
Mt. Holstein	...	...	...	...	...
Hardware Gap	8.64	...	...	...	18.26
Irish Town	6.98	1.20	29	14	...
Annotto Bay	5.57	1.50	23	10	10.27
Stony Hill Reft.	10.66	3.62	11	17	14.94
Castleton Gardens	12.60	3.00	23	14	16.06
Lawrence Tavern	12.92	2.43	24	14	12.84
Quebec	...	...	...	...	10.62
Carew Castle	9.93	2.04	26	20	...
Water Valley	7.72	2.00	29	9	...
Richmond, St. Mary	7.05	1.46	29	13	12.05
Kendal, St. Mary	...	...	...	...	...
Gayle, P.W.D.	7.37	1.45	11	12	11.58
Bio Hoe	4.66	1.57	30	8	10.34
Unity Valley	5.89	1.92	30	10	9.71
Moneague	4.11	1.63	30	11	12.43
Claremont	4.89	1.80	5	9	9.37
Albion	4.90	1.70	30	13	9.02
Averham Park	6.62	1.70	11	9	9.82
Ballintoy	7.64	1.39	11	15	10.38
Means	7.41	...	...	...	12.10

OCTOBER, 1902.

NORTHERN DIVISION.

	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average
		Amount.	Date.		
	In.	In.			In.
Port Maria	6.43	1.01	29	7	9.21
Ocho Rios	3.83	1.44	29	5	...
Drax Hall	4.62	2.60	30	5	7.56
St. Ann's Bay	2.71	1.17	30	5	9.23
Richmond Estate	6.54	2.10	30	6	8.26
Llandoverly	4.67	2.20	5	4	8.10
Southfield	4.08	1.12	30	7	...
Brown's Town	6.51	2.51	30	11	10.78
Hyde Park	12.80	3.30	29	14	...
Dry Harbour	2.08	1.00	31	6	...
Chewmagna	9.42	1.61	26	18	...
Home Castle	4.09	1.80	30	8	7.27
Richmond Pen	13.14	3.90	27	13	7.84
Mahogany Hall	5.59	1.18	28	13	7.61
Brampton Bryan	3.51	1.20	30	9	4.85
Bryan Castle	4.62	1.67	30	9	5.44
Tranco	5.63	2.40	30	8	5.36
Arcadia	5.45	1.10	30	12	6.27
Harmony Hall	5.37	1.80	30	8	5.35
Lancaster	5.75	2.20	30	7	5.90
Vale Royal	5.23	3.00	30	7	6.65
Colchia Pen	6.96	1.60	1	9	8.42
Hyde	4.01	1.30	30	10	7.51
Georgia	4.12	1.23	30	10	6.32
Long Pond	3.92	1.75	30	11	...
Steelfield	4.28	1.87	30	9	6.12
Oxford	1.77	0.80	30	7	7.44
Cambridge	3.92	1.30	30	10	6.71
Lottery	4.00	1.50	31	6	6.57
Falmouth P.W.D.	2.72	1.20	31	8	5.96
Holland Pen	5.07	1.24	11	10	6.21
Golden Grove, Trel.	...	...	...	...	7.15
Tilston	...	...	...	...	7.48
Orange Valley	...	...	...	...	6.90
Kent	4.79	1.30	30	9	6.93
Dundee	5.70	1.05	27	11	6.63
Phoenix	10.21	1.90	11	13	9.74
Gales Valley	...	...	...	...	7.68
Canaan	8.46	1.75	27	12	8.18
Lima	6.50	1.50	30	12	...
Content	6.74	1.30	23	13	6.08
Guildbro'	...	...	...	...	7.10
Moor Park	7.44	1.90	28	16	...
Success	3.32	1.45	23	9	6.27
Cinnamon Hill	4.62	1.25	23	11	6.57
Rose Hall	4.74	1.12	23	12	5.76
Running Gut	3.82	1.22	30	8	5.07
Spring	...	...	...	...	7.75
Ironshore	3.92	0.90	1	11	5.95
Montego Bay	8.82	2.80	23	13	8.17
Fairfield, St. James	10.10	2.70	12	13	7.49
Anchovy	10.84	1.62	19	17	6.99
Round Hill	7.95	3.15	2	11	6.21
Tryall	6.36	1.00	23	13	5.67
Sandy Bay	5.38	1.34	6	10	10.51
Lucea	6.67	1.28	6	15	9.59

CENTRAL SUB-DIVISION						SOUTHERN DIVISION.					
OCTOBER, 1902.						OCTOBER, 1902.					
Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.	
	Amount.	Date.					Amount.	Date.			
In.	In.			In.		In.	In.			In.	
Headworks, Rio Cobre	1.95	0.55	17	10	10.62	Morant Point L. H. ...	6.84	3.65	31	21	11.60
Linstead	5.54	1.50	26	16	11.08	Morant Bay	4.78	1.64	5	12	18.04
Berkshire Hall	5.73	2.30	28	11	..	Easington	4.29	1.63	7	7	18.37
Point Hill	6.14	2.50	28	20	19.66	Bull Bay	2.19	1.15	29	6	12.05
Harker's Hall	...	...	...	5	12.02	Gordon Town	9.88	2.00	28	13	17.61
Worthy Park	1.60	0.55	13	5	12.02	Hope Gardens	2.60	0.54	29	13	11.75
Good Hope	3.75	0.63	...	10	...	King's House	...	...	...	...	...
Chapelton	6.63	1.45	29	13	13.00	Halfway Tree	2.29	0.56	20	8	12.12
Lower Chapelton	7.43	1.62	29	15	16.42	Lunatic Asylum	1.73	1.09	30	9	...
Condia	5.48	1.90	29	11	...	Kingston Gardens	4.17	2.57	31	6	...
Savoy House	5.92	1.52	31	21	...	Public Works Office...	4.49	2.05	31	9	8.34
Mears	7.51	1.70	2	16	...	Plumb Point L. H. ...	1.12	0.35	3	8	8.27
Cave Valley	5.08	1.45	28	14	10.13	Port Royal N. Hospital	1.87	0.75	30	6	...
Means	5.58	...	...	...	7.99	Ferry	2.95	0.90	30	7	15.19
WEST CENTRAL DIVISION.						Lawrencefield	...	...	...	...	...
Moocho	3.44	0.89	16	10	...	Spanish Town	4.51	3.11	29	5	10.02
Baillieston	2.92	0.52	26	10	...	Hog Hole Pen	3.27	0.91	30	6	10.48
Farm Plantation	4.18	1.25	29	11	15.92	Browns Hall	5.46	1.55	17	6	...
Brokenhurst	6.81	0.90	5, 16	16	16.04	Old Harbour	2.05	0.85	31	5	11.80
Christiana	7.61	1.22	29	20	14.86	May Pen	3.31	0.97	11	11	15.04
Kendal, Manchester	5.02	1.38	29	11	18.83	Hermitage, Clarendon	...	...	...	...	...
Mandeville P.W.D.	5.55	1.11	9	20	18.05	Denbigh	3.40	2.50	29	3	10.75
Carlton, Mandeville	5.63	1.11	9	13	...	Amity Hall	3.34	1.30	31	10	...
Fairfield, Manchester	6.56	2.56	5	15	...	New Yarmouth	1.25	0.40	11	5	13.82
Fair View	2.21	0.43	11	11	...	Rest	2.70	1.33	11	7	...
Ulster Spring	9.42	2.00	11	17	10.44	Victoria Town	3.27	0.85	29	8	13.56
Low River	10.90	4.50	28	10	...	Stone's Hope	5.28	1.83	28	14	14.89
Troy	22.73	2.90	26	21	16.68	Newport, Manchester.	3.54	0.76	29	12	15.84
Fontabelle, Trelawny.	8.90	3.25	11	13	11.35	Alligator Pond	1.68	1.00	11	3	10.90
Windsor Pen, Trel.	10.28	3.40	11	15	9.02	Potsdam	2.64	1.35	11	9	10.81
Balaclava	13.70	3.45	2	14	15.64	Long Hill	4.95	1.41	17	15	13.04
Elim	10.99	2.29	29	13	19.50	Pepper	5.27	1.70	27	7	13.45
Appleton	17.55	4.86	11	20	12.85	Torrington	3.01	0.73	15	7	14.04
Maggotty	9.89	1.32	9	20	16.36	Bethlehem, St. Eliz.	4.57	1.38	28	14	...
Spring Vale, St. James	6.68	1.36	10	12	10.42	Santa Cruz	4.84	0.67	24	18	11.78
Maroon Town, St. Jas.	...	...	...	...	12.93	Pedro Plains	1.12	0.50	12	4	...
Kempshot	9.80	1.83	27	21	9.78	Black River	6.08	1.31	31	13	9.03
Kepp	...	...	...	...	13.20	Spring Hill	6.43	2.50	31	12	...
Kew Park	...	...	...	...	11.50	Font Hill	6.55	2.15	31	6	12.66
Hazelymph	11.90	1.85	6	22	10.57	Peter's Ville	11.28	1.92	12	18	11.96
King Gate	10.18	2.32	12	13	...	Salem	...	...	...	...	...
Darliston	19.49	2.42	7	27	15.43	Mount Edgecombe	8.81	1.73	31	19	10.82
Whithorn	10.12	1.25	12	23	14.19	Bluefields	7.39	1.05	18	21	...
Galloway	...	...	...	...	...	Sweet River	10.67	1.75	5	17	10.09
Lethe Bridge	...	...	...	...	13.34	Cornwall	10.61	1.28	12	21	...
New Garth	...	...	...	...	...	Windsor, Sav.-la-Mar	7.97	1.95	11	19	8.29
Copse	...	...	...	...	9.94	Sav.-la-Mar P.W.D.	6.84	1.47	8	20	9.99
Cacoon Castle	...	...	...	...	9.78	Retreat	8.06	2.08	12	17	13.46
Great Valley	10.42	3.25	6	13	12.10	Spring Valley	13.97	3.00	19	17	...
Brownsville	10.38	2.23	6	17	...	Negril Point L. H.	5.58	0.75	7	17	...
Fontabelle	...	...	...	...	9.81						
Morgans Bridge	15.48	2.85	19	24	15.30						
King's Valley	12.58	1.80	8	17	13.36						
Kings Vale Police St.	9.83	1.74	11	16	...						
Means	10.91	...	...	...	14.13	Means	4.87	...	...	...	12.42

NOTES.

COMPARATIVE TABLE OF RAINFALL.
(Based upon the "Average" Stations only.)

	OCTOBER.	
	1902.	Average.
	In.	In.
North Eastern Division	7.41	13.87
Northern	5.68	7.99
West Central	10.91	14.13
Southern	4.87	12.42
Means	7.19	12.10

The Rainfall for the whole Island was therefore very much below the average. The heaviest fall recorded was 22.73 inches at Troy in the West Central Division while 1.12 inches fell at Pedro Plains in the Southern Division.

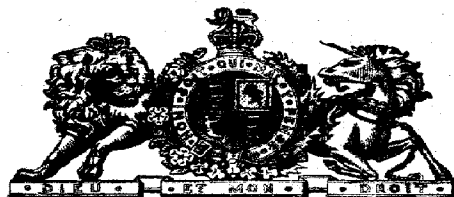
UNITED STATES STATION, HALFWAY TREE.

OCTOBER, 1902.	8 A.M.	8 P.M.
Bar Pressure	29.93	29.90
Temperature	77.9	76.1
Dew Point	68.8	71.8
Humidity	74.0	86.9
Cloud	4.0	3.4

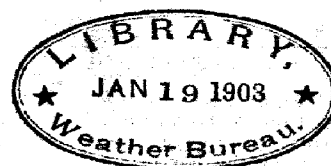
Mean Max. Temp. 87.4
 Mean Min. Temp. 70.7
 Mean Range 16.7
 Extreme Temps. { Max. 92 on the 8th.
 Min. 68 on the 3d.
 Mean Wind per diem 140 miles.
 Max. Wind 26 from the S.E. on the 21st

(284) Returns sent up too late for publication in that Report.	1902.			
	Total fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.
		Amount.	Date.	
Richmond Estate	2.48	0.90	2	10
Spring Vale, St. James	10.21	1.95	4	11

H. H. Cousins, Island Chemist.



JAMAICA



WEATHER REPORT

FOR THE MONTH OF

NOVEMBER, 1902.

METEOROLOGICAL RESULTS.

The Bar-pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32°, gravity at Lat. 45°, and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part fracto-stratus; the Middle clouds, cumulus; and the Upper clouds, cirrus, or cirro-stratus.

STATION.	Elevation.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Point Light House	8	29.891	29.842	79.2	84.1	...	...	...	...	...	...	...	...
Negril Point Light House	33	29.900	29.842	75.5	82.6	86.5	71.7	14.8	90.4	17	68.3	24	22.1
Castleton Gardens	496	29.880	29.881	72.7	80.9	85.7	...	...	90.8	*4	...	...	...
Hope Gardens	680	29.890	29.855	71.0	83.6	86.6	67.6	19.0	89.2	*5	60	4	29.2
Stony Hill Reformatory	1,400	...	...	70.7	77.8	85.2	66.7	18.5	87	*4	65	25, 28	22
Kempshot	1,773	29.904	29.854	70.9	73.9	79.2	69.7	9.5	88	23	65.3	2	22.7
Hill Gardens	4,907	...	...	61.3	65.9	69.4	56.1	13.3	72	16	54	2	18

STATION.	Elevation.	Dew Point and Humidity.		Rainfall.	Wind per diem.	Wind: direction (from and miles per hour.)		Amount of Cloud. Lower, Middle and Upper.									
		7 a.m.	3 p.m.			7 a.m.	3 p.m.	7 a.m.			3 p.m.						
	ft.	°	°	in.	miles	Var.	m.	Var.	m.	L.	M.	U.	L.	M.	U.		
Morant Point Light House	8	...	...	...	12.16	...	7.1	...	9.4	2.4	2.3	1.0	2.4	2.2	1.0	
Negril Point Light House	33	70.5	84	72.7	72	2.22	208	Var.	6.5	Var.	8.4	1.1	1.5	1.0	1.6	4.9	0.4
Castleton Gardens	496	70.0	92	72.4	76	4.98	...	...	...	...	...	...	...	...	...	...
Hope Gardens	680	62.8	71	71	69	1.94	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	68.3	92	69.9	76	4.16	...	...	...	...	...	...	...	...	...	...
Kempshot	1,773	68.8	98	65.2	64	3.52	175.6	E	5.6	E	3.3	4.0	0.2	2.1	0.7	5.6	1.4
Hill Gardens	4,907	57.7	86	62	90	5.10	...	...	...	...	...	...	...	...	...	...

* And on other days.

RAINFALL FOR NOVEMBER, 1902.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to tables recently prepared. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each Division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four Divisions.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:—

North Eastern Division	25
Northern and Central	22
West Central	26
Southern	27

100

NORTH-EASTERN DIVISION.	NOVEMBER, 1902.				
	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Hordley	23.15	4.70	11	19	10.66
Manchioneal	18.51	3.10	3	14	13.24
Fair Prospect	...	...	...	...	...
Bath	23.26	2.94	10	20	13.51
Moore Town	31.27	7.00	11	20	...
Port Antonio	19.44	7.60	11	16	14.63
Fellowship	23.88	7.60	11	16	26.76
Johnson River Bridge	8.60	2.19	8	...	...
Shrewsbury	...	...	...	...	...
Cedar Valley, St. Thos	5.01	0.62	9	16	9.23
Hill Gardens	5.10	1.34	7	15	12.41
Resource	...	...	...	...	...
Buff Bay	9.88	2.06	1	15	14.64
Greenvale	...	...	...	...	...
Mt. Holstein	6.76	1.36	9	19	...
Hardware Gap	7.05	...	...	...	10.36
Irish Town	2.50	0.90	2	4	...
Annotto Bay	4.31	1.02	1	11	10.69
Stony Hill Reft.	4.16	1.60	2	9	6.72
Castleton Gardens	4.98	1.35	2	12	11.77
Lawrence Tavern	1.11	0.49	10	4	6.93
Quebec	...	...	...	...	3.62
Carew Castle	3.02	0.80	10	10	...
Water Valley	6.36	0.30	1	15	...
Richmond, St. Mary	4.75	0.94	1	23	12.22
Kendal, St. Mary	...	...	...	...	...
Gayla, P.W.D.	11.14	2.68	3	13	12.10
Bio Hoe	6.69	2.17	8	14	8.79
Unity Valley	7.12	2.24	3	13	7.59
Moneague	6.58	2.00	3	12	9.44
Claremont	6.90	2.20	3	14	9.65
Albion	5.23	2.22	1	12	9.32
Averham Park	6.23	2.08	3	11	10.27
Balfintony	4.02	1.79	3	6	0.54
Means	9.47	...	...	...	10.97

NOVEMBER, 1902.

NORTHERN DIVISION.

	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average
		Amount.	Date.		
	In.	In.			In.
Port Maria	16.00	3.05	11	19	9.84
Ocho Rios	6.03	2.04	1	11	...
Drax Hall	8.96	3.00	1	11	9.94
St. Ann's Bay	4.79	1.80	1	12	10.60
Richmond Estate	5.46	1.55	3	11	10.13
Llandoverly	6.09	1.63	1	7	9.10
Southfield	8.97	2.28	1	10	...
Brown's Town	5.66	2.51	1	12	10.36
Hyde Park	2.42	0.80	1	5	...
Dry Harbour	4.51	1.34	1	8	...
Chewmagna	3.69	1.86	9	8	...
Home Castle	7.84	1.80	1	9	7.20
Richmond Pen	5.70	2.50	9	7	4.39
Mahogany Hall	8.67	2.72	14	9	5.99
Brampton Bryan	4.44	1.32	9	8	5.38
Bryan Castle	4.94	1.63	14	9	6.08
Araco	3.25	0.75	1	8	5.99
Arcadia	3.97	1.40	14	7	6.54
Harmony Hall	3.57	1.00	8	8	5.64
Lancaster	3.96	0.75	8	9	6.33
Vale Royal	6.13	2.14	8	11	7.21
Colchis Pen	3.54	1.60	1	3	4.97
Hyde	3.40	1.30	14	8	6.58
Georgia	6.51	3.41	8	5	5.78
Long Pond	2.85	0.88	14	9	...
Steelfield	4.49	1.88	9	11	5.96
Oxford	2.09	0.96	8	8	5.70
Cambridge	2.47	0.60	14	8	5.88
Lottery	2.67	0.97	9	6	5.29
Falmouth P.W.D.	3.93	1.00	1	12	5.00
Holland Pen	4.14	1.50	1	7	4.73
Golden Grove, Trel.	...	...	...	...	5.69
Tilston	...	...	...	...	5.46
Orange Valley	3.75	1.65	1	6	5.41
Kent	2.26	0.40	13	7	4.98
Dundee	3.65	2.00	1	9	5.68
Phoenix	4.29	1.37	1	11	5.66
Gales Valley	...	...	...	...	4.79
Canaan	3.34	1.10	5	6	4.21
Lima	2.95	1.10	5	6	...
Content	2.85	0.95	1	7	4.25
Gnillsbro'	...	...	...	...	5.91
Moor Park	4.35	1.53	7	9	...
Success	4.03	1.50	9	10	4.93
Cinnamon Hill	3.35	1.45	1	9	4.76
Rose Hall	3.77	1.65	9	10	4.66
Running Gut	1.99	1.00	1	6	4.55
Spring	...	...	...	...	5.16
Ironshore	1.35	0.35	8	7	4.30
Montego Bay	3.48	1.50	14	8	4.11
Fairfield, St. James	2.25	0.35	5.10	7	4.46
Anchovy	3.72	0.95	6	6	3.55
Round Hill	0.80	0.15	7.12	2	4.02
Tryall	...	...	...	...	3.31
Sandy Bay	7.00	2.34	5	9	5.29
Lucea	8.71	1.95	5	11	6.15

CENTRAL SUB-DIVISION						SOUTHERN DIVISION.					
NOVEMBER, 1902.						NOVEMBER, 1902.					
Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.	
	Amount.	Date.					Amount.	Date.			
In.	In.			In.		In.	In.			In.	
Headworks, Rio Cobre	3.49	0.98	2	11	4.30	Morant Point L. H. ...	12.16	2.94	11	20	6.03
Linstead	3.41	1.10	15	8	5.59	Morant Bay	8.13	2.62	10	14	6.57
Berkshire Hall	1.50	0.35	1	6	...	Easington	5.00	1.15	14	10	6.22
Point Hill	12.94	3.07	10	13	6.05	Bull Bay	1.74	1.10	6	5	2.70
Harker's Hall	...	...	...	...	...	Gordon Town	1.48	0.42	2	6	7.04
Worthy Park	1.71	0.40	1	5	3.67	Hope Gardens	1.94	1.10	1	13	5.67
Kellels	...	...	...	...	...	Halfway Tree	1.81	0.73	2	4	3.54
Chapelton	...	...	...	...	4.13	Lunatic Asylum	1.23	0.52	8	6	...
Lower Chapelton	4.84	2.60	10	13	3.86	Kingston Gardens	0.57	0.22	1	4	...
Condia	8.31	2.55	10	13	...	Public Works Office...	1.72	0.80	2	4	2.66
Savoy House	5.82	1.64	10	12	...	Plumb Point L. H. ...	1.55	0.73	6	7	2.22
Mears	3.65	1.85	1	10	...	Port Royal N. Hospital	1.41	0.60	2	7	...
Cave Valley	...	...	...	...	4.71	Ferry	0.83	0.33	2	6	3.03
Means	2.55	...	...	...	5.85	Lawrencefield	...	...	...	...	...
						Spanish Town	0.96	0.52	2	3	3.02
WEST CENTRAL DIVISION.											
Moch	8.74	1.95	26	19	...	Hog Hole Pen	2.17	0.4	2	6	3.68
Baillieston	4.64	1.10	1	11	...	Browns Hall	10.93	2.70	19	11	...
Farm Plantation	5.09	1.20	10	12	5.68	Old Harbour	2.70	1.35	2	4	4.45
Brokenhurst	...	...	...	...	6.57	May Pen	3.75	1.35	17	10	3.85
Christiana	1.99	0.63	8	11	6.28	Denbigh	...	...	...	...	4.76
Kendal, Manchester	7.29	1.00	19	18	6.97	Parnassus Estate	1.60	0.40	9	7	...
Mandeville P.W.D.	5.75	0.98	26	17	6.87	Amity Hall	1.74	0.72	1	6	...
Carlton, Mandeville	4.20	0.84	26	17	...	New Yarmouth	1.48	0.65	2	4	1.69
Fairfield, Manchester	6.70	2.02	2	12	...	Rest	2.16	1.20	3	6	...
Fair View	2.84	0.59	1	11	...	Victoria Town	3.69	1.07	3	7	3.21
Ulster Spring	2.40	1.09	1	6	5.54	Stone's Hope	5.07	1.62	10	14	5.38
Low River	3.78	1.38	1	4	...	Newport, Manchester.	6.72	1.72	9	11	7.25
Troy	5.04	1.75	18	9	5.28	Alligator Pond	3.59	1.55	4	3	3.83
Fontabelle, Trelawny.	2.95	0.85	9	9	6.02	Potsdam	3.21	1.72	1	9	5.77
Windsor Pen, Trel.	4.91	1.60	9	11	5.41	Long Hill	4.99	1.56	1	12	5.28
Balacava	9.19	1.95	26	11	6.11	Pepper	8.55	2.00	4	8	5.01
Elim	6.04	2.00	26	7	9.98	Torrington	4.26	2.03	1	8	7.19
Appleton	7.40	1.65	10	10	5.28	Bethlehem, St. Eliz.	4.54	0.88	1	9	...
Maggoty	8.28	1.50	20	16	6.38	Santa Cruz	5.85	1.70	1	10	5.59
Spring Vale, St. James	5.24	1.40	1	8	6.08	Pedro Plains	4.39	2.90	1	5	...
Maroon Town, St. Jas.	...	...	...	...	5.71	Black River	4.86	1.23	9	14	4.73
Kempshot	3.62	1.10	14	13	6.82	Spring Hill	9.17	2.15	20	13	...
Kepp	...	...	...	...	6.15	Font Hill	5.00	1.50	11	10	6.58
Kew Park	...	...	...	...	5.49	Peter's Ville	6.61	1.67	1	12	8.02
Hazelymph	11.19	2.80	21	13	4.87	Salem	...	...	...	...	...
King Gate	4.57	1.24	9	7	...	Mount Edgecombe	6.41	2.20	1	12	5.27
Darliston	11.20	2.82	10	14	7.12	Bluefields	4.97	1.53	17	15	...
Whithorn	5.44	1.79	10	12	6.83	Sweet River	4.81	1.88	20	12	3.87
Galloway	...	...	...	...	...	Cornwall	5.59	2.85	10	6	...
Lethe Bridge	...	...	...	...	4.49	Windsor, Sav.-la-Mar	2.80	1.5	10	8	3.92
New Garth	...	...	...	...	...	Sav.-la-Mar P.W.D.	2.42	0.93	20	9	8.83
Copse	...	...	...	...	5.23	Retreat	1.16	0.90	10	6	5.93
Cocoon Castle	...	...	...	...	5.14	Spring Valley	7.79	2.23	6	11	...
Great Valley	13.19	2.82	5	12	5.79	Negril Point L. H.	2.22	0.88	17	6	...
Brownsville	11.94	3.20	4	11	...						
Fontabelle	5.38	2.34	9	8	2.84						
Morgans Bridge	4.19	0.99	10	15	5.95						
King's Valley	9.12	1.80	9	12	5.71						
Kings Vale Police St.	6.91	1.60	10	11	...						
Means	6.42	...	...	...	6.06	Means	3.97	...	...	...	4.78

NOTES.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

	NOVEMBER.	
	1902.	Average.
	In.	In.
North Eastern Division	9.47	10.97
Northern	2.55	5.85
West Central	6.42	6.06
Southern	3.97	4.78
Means	5.60	6.91

The Rainfall for the whole Island was therefore below the average. The highest fall recorded was 31.27 inches at Moore Town in the North Eastern division while 0.30 inches fell at Round Hill in the Northern division.

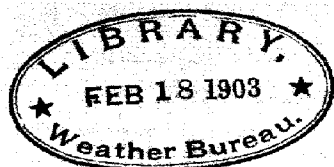
EARTHQUAKES.

Station.	Division.	Date	Time.
Albion	N.E.	10	12.1 a.m.
"	"	22	3 a.m.
Unity Valley	"	22	3 a.m.
Brownsville	W.C.	13	5.30 a.m.
Bluefields	S.	13	5.30 "
"	"	22	3 "
Petersville	"	13	6.18 "
"	"	22	3.50 "

OCTOBER 1902.

WEATHER REPORT No. 285	Total fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.
		Amount.	Date.	
Returns sent up too late for publication in that Report.				
Parnassus Estate	3.53	1.20	28	8

H. H. COUSINS, Island Chemist.



No. 287.



JAMAICA

WEATHER REPORT

FOR THE MONTH OF

DECEMBER, 1902.

METEOROLOGICAL RESULTS.

The Bar-pressures at all the Stations except the Hill Gardens are reduced to the standards of Kew, 32^d, gravity at Lat. 45th, and mean sea-level. The pressure at the Hill Gardens is reduced to the first three standards only. The Thermometers are exposed in Stevenson's Screens; their readings have been corrected for instrumental errors.

The miles of Wind per diem are measured by Robinson's Anemometers, the factor 3 being assumed correct for the small instruments used and for the small velocities measured.

The amount of Cloud is given in tenths of the whole sky; the Lower clouds are for the most part *fracto-stratus*; the Middle clouds, *cumulus*; and the Upper clouds, *cirrus*, or *cirro-stratus*.

STATION.	Eleva- tion.	Bar. Pressure.		Temperature.					Extreme Temperature.				
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	Max.	Date.	Min.	Date.	Range
	ft.	in.	in.	°	°	°	°	°	°		°		°
Morant Point Light House	8	29.929	29.882	75.9	84.6	...	...	...	...	...	...	...	...
Negril Point Light House	33	29.945	29.881	73.5	82.3	84.9	70.8	14.1	87.7	11	66.2	21, 23	21.5
Castleton Gardens	496	29.926	29.869	71.5	79.9	84.6	...	...	93.8	3	...	...	...
Hope Gardens	680	29.951	29.916	70.9	81.7	86.0	70.0	16.0	90.2	12	63.0	24	27.2
Stony Hill Reformatory	1,400	...	...	69.0	77.8	82.8	65.2	17.6	87	3, 4	63	23*	24
Kempshot	1,778	...	...	68.9	73.5	75.9	67.5	8.4	89.1	4	62.9	28, 29	20.2
Hill Gardens	4,907	...	...	61.1	64.2	68.0	53.6	14.4	72	4	50	26*	22

STATION.	Elevation.	Dew Point and Humidity.				Rainfall.	Wind per diem.	Wind: direction (from and miles per hour.)				Amount of Cloud. Lower, Middle and Upper.					
		7 a.m.		3 p.m.				7 a.m.		3 p.m.		7 a.m.			3 p.m.		
		°	°	°	°			in.	miles	Var.	m.	Var.	m.	L.	M.	U.	L.
Morant Point Light House	ft. 8	4.92	...	Var.	10.0	Var.	12.9	2.5	M. 2.1	U. 1.0	1.9	M. 2.1	0.9
Negril Point Light House	33	69.4	87	71.3	69	4.73	251	Var.	8.5	Var.	11.7	1.4	1.7	1.2	1.6	3.5	0.7
Castleton Gardens	496	67.9	91	70.6	74	25.08	...	...	...	...	...	...	...	...	...	...	...
Hope Gardens	680	64.7	79	71.2	71	3.75	...	...	...	...	...	...	...	...	...	...	...
Stony Hill Reformatory	1,400	66.6	92	70.0	76	4.92	...	...	...	...	...	...	...	...	...	...	...
Kempshot	1,773	66.2	91	67.1	80	13.06	138	...	...	...	...	...	...	...	...	...	...
Hill Gardens	4,907	58.4	89	61.4	90	14.56	...	...	...	...	...	...	...	...	...	...	...

* And on other days.

RAINFALL FOR DECEMBER, 1902.

The first four columns contain all the information relating to the Rainfall for the month received for publication up to the date of this report; the last column contains the corresponding Rainfall average for the month, according to tables recently prepared. In obtaining the mean Rainfall for the month from the numbers in the column for the total fall, only those Stations are considered for which the average Rainfall has been also given in the last column, so that the results of these two columns are directly comparable for each Division. These results are reproduced in the Comparative Table at the end of this Rainfall Return, so as to arrive at the mean for the whole Island, embracing the four Divisions.

The Northern Division comprises the northern shores from Port Maria to Davis' Cove, including the central part of the Island which forms the Central Sub-Division; the Southern Division comprises the southern shores from Holland Bay to South Negril; the North Eastern and West Central Divisions are the remaining parts of the Island, bounded by the sea and the other Divisions. Their relative areas are as follows:

North Eastern Division	-	-	25
Northern and Central	-	-	22
West Central	-	-	26
Southern	-	-	27

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NORTH-EASTERN DIVISION.		DECEMBER, 1902.				
		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
			Amount.	Date.		
	In.	In.				In.
Hordley	5.39	1.28	14	12	8.97	
Manchioneal	7.32	1.20	24	11	9.51	
Fair Prospect	14.96	2.65	27	19	...	
Bath	9.70	2.50	26	14	8.96	
Moore Town	47.94	10.80	28	20	...	
Port Antonio	23.21	3.32	6	21	13.91	
Fellowship	39.62	9.00	25	23	18.42	
Johnson River Bridge	3.36	0.79	30	13	...	
Shrewsbury	46.85	9.10	26	16	...	
Cedar Valley, St. Thos	5.08	1.45	29	12	5.62	
Hill Gardens	14.56	4.77	24	17	11.17	
Resource	...	...	...	...	...
Buff Bay	17.41	1.85	6	20	13.68	
Greenvale	...	...	...	...	...
Mt. Holstein	29.10	5.84	25	21	...	
Hardware Gap	10.14	...	...	...	7.88	
Irish Town	5.38	1.85	25	6	...	
Annotto Bay	18.15	5.60	28	18	10.50	
Stony Hill Reft.	4.92	1.60	7	13	4.31	
Castleton Gardens	25.03	5.80	15	19	12.48	
Lawrence Tavern	8.90	1.37	9	14	4.06	
Quebec	...	...	...	...	9.85	
Carew Castle	7.94	1.47	30	20	...	
Water Valley	16.39	2.02	29	21	...	
Richmond, St. Mary	19.13	4.84	25	20	10.08	
Kendal, St. Mary	23.21	6.00	25	...	...
Gayle, P.W.D.	12.45	2.56	28	15	11.71	
Bio Hoe	14.66	4.90	25	16	9.76	
Unity Valley	11.49	3.65	25	18	7.88	
Moneague	13.68	4.26	25	19	8.06	
Claremont	18.00	6.10	25	15	10.48	
Albion	14.75	5.36	25	16	8.44	
Averham Park	18.82	5.15	25	18	11.29	
Ballintoy	7.19	1.04	25	16	5.53	
Means	14.82	...	...	...	9.91	

*Gauge overflowed on the 25th.

DECEMBER, 1902.

NORTHERN DIVISION.

	Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.
		Amount.	Date.		
	In.	In.			In.
Port Maria	14.15	3.70	29	21	7.95
Ocho Rios	11.32	2.80	28	14	...
Drax Hall	20.94	4.80	29	13	8.43
St. Ann's Bay	13.73	3.17	27	14	6.98
Richmond Estate	20.37	5.00	27	15	8.95
Ilfordery	16.87	5.17	27	12	8.48
Southfield	15.89	4.79	27	14	...
Brown's Town	19.19	3.46	28	15	9.76
Hyde Park	3.92	0.90	29	8	...
Dry Harbour	10.01	2.59	27	15	...
Chewmagna	4.71	1.15	27	16	...
Home Castle	20.52	3.85	27	15	7.70
Richmond Pen	10.15	2.40	24	16	5.21
Mahogany Hall	19.01	2.93	26	16	6.15
Brampton Bryan	13.17	2.52	27	14	5.76
Bryan Castle	17.33	3.00	27	15	6.28
Braco	11.38	2.06	27	13	6.09
Arcadia	...	...	...	...	6.86
Harmony Hall	10.90	2.00	26	13	6.43
Lancaster	14.75	2.80	26	14	6.69
Vale Royal	19.39	3.80	27	15	8.13
Colchis Pen	8.81	1.60	16	11	4.74
Hyde	10.52	2.95	26	13	6.70
Georgia	13.44	2.74	28	12	7.07
Long Pond	12.73	2.76	25	14	...
Steelfield	16.92	2.65	26	15	6.75
Oxford	7.19	1.32	28	12	6.97
Cambridge	9.40	2.05	26	9	6.84
Lottery	9.68	3.15	25	11	5.96
Falmouth P.W.D.	11.86	3.00	26	11	5.40
Holland Pen	12.97	3.37	26	10	5.06
Golden Grove, Trel.	...	...	...	...	5.08
Tilston	...	...	...	...	5.47
Orange Valley*	11.45	3.60	25	7	6.18
Kent	13.64	3.50	24	12	5.38
Dundee	14.90	4.00	26	12	6.00
Phoenix	10.08	2.00	24	10	7.02
Gales Valley	...	...	...	...	5.54
Canaan	15.15	3.70	26	13	5.27
Lima	12.35	2.60	25	11	...
Content	13.95	3.55	25	13	5.48
Gulshro'	...	...	...	...	4.62
Moor Park	10.21	2.10	24	17	...
Success	10.21	3.00	25	13	4.26
Cinnamon Hill	14.31	5.35	25	13	6.61
Rose Hall	12.16	5.45	25	11	5.53
Running Gut	8.15	3.20	28	9	5.96
Spring	...	...	...	...	5.13
Ironshore	10.87	4.00	29	9	5.52
Montego Bay	9.93	3.00	25	12	5.25
Fairfield, St. James	8.15	2.70	25	14	4.64
Anchovy	5.45	1.50	24	9	3.85
Round Hill	3.30	1.75	25	9	3.25
Tryall	...	...	...	...	3.67
Sandy Bay	7.39	1.85	24	8	3.72
Lucea	9.13	2.71	24	13	4.27

CENTRAL SUB-DIVISION						SOUTHERN DIVISION.					
DECEMBER, 1902.						DECEMBER, 1902.					
Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.		Total Fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fell.	Average.	
	Amount.	Date.					Amount.	Date.			
In.	In.			In.		In.	In.			In.	
Headworks, Rio Cobre	2.52	0.47	9	10	1.97	Morant Point L. H. ...	4.92	1.23	24	21	6.41
Linstead	9.12	2.18	7	14	3.56	Morant Bay	2.94	1.20	30	10	3.86
Berkshire Hall	11.28	2.20	15	15	...	Easington	2.27	1.15	30	8	3.11
Point Hill	5.36	1.12	25	16	4.52	Bull Bay	1.49	0.48	25	5	1.21
Harker's Hall	...	...	...	...	...	Gordon Town	2.66	1.15	25	6	3.32
Worthy Park	...	...	...	...	2.48	Hope Gardens	3.75	1.00	7	10	2.64
Good Hope	3.64	0.78	...	10	...	Halfway Tree	2.00	0.40	8	9	2.01
Chapelton	2.05	0.56	30	7	2.30	Lunatic Asylum	1.14	0.36	25	8	...
Lower Chapelton	3.36	1.00	25	7	2.04	Kingston Gardens	...	...	...	...	...
Savoy House	3.23	0.54	25	14	...	Public Works Office...	1.13	0.37	7	6	1.78
Mears	...	...	...	...	...	Plumb Point L. H. ...	0.36	0.15	30	5	1.61
Cave Valley	2.56	0.48	7	10	2.74	Port Royal N. Hospital	0.97	0.55	30	4	...
Means	11.60	...	...	...	5.72	Ferry	1.89	0.60	7	7	2.21
WEST CENTRAL DIVISION.						Lawrencefield	...	...	...	...	...
Mcho	...	...	...	...	...	Spanish Town	1.56	0.42	30	9	2.03
Ballieston	3.05	0.75	7	13	...	Hog Hole Pen	2.06	0.74	7	7	3.01
Farm Plantation	2.52	0.55	26	11	3.04	Browns Hall	3.12	1.40	29	7	...
Brokenhurst	4.35	1.20	25	10	4.09	Old Harbour	2.82	2.00	7	4	2.57
Christiana	3.09	1.20	7	15	4.50	May Pen	1.04	0.40	31	8	1.90
Kendal, Manchester	2.96	1.10	7	9	2.70	Denbigh	0.82	0.55	20	2	2.09
Mandeville P.W.D.	5.98	1.49	29	17	3.45	Parnassus Estate	...	...	...	...	...
Carlton, Mandeville	6.49	1.46	29	13	...	Amity Hall	1.04	0.41	8	5	...
Fairfield, Manchester	3.85	1.48	26	10	...	New Yarmouth	0.32	0.20	9	2	1.89
Fair View	3.23	1.19	26	12	...	Rest	1.04	0.60	8	5	...
Ulster Spring	4.07	0.65	27	15	4.93	Victoria Town	2.36	0.55	7	7	2.57
Low River	3.26	0.80	24	8	...	Stone's Hope	1.79	0.57	30	8	2.82
Troy	1.46	0.43	24	5	4.18	Newport, Manchester.	2.67	0.94	26	7	4.14
Fontabelle, Trelawny.	7.80	1.60	24	14	5.72	Alligator Pond	1.44	0.50	24	4	2.76
Windsor Pen, Trel.	6.47	2.41	24	16	5.47	Potsdam	3.30	1.40	9	8	2.61
Balaolava	2.30	1.90	7	3	2.80	Long Hill	3.43	0.87	24	12	3.35
Elim	2.82	1.70	7	6	3.81	Pepper	1.70	0.70	28	5	2.94
Appleton	3.20	1.75	7	4	3.18	Torrington	5.11	2.03	9	9	2.71
Maggotty	3.01	2.04	7	6	3.07	Bethlehem, St. Eliz.	4.55	0.94	7	14	...
Spring Vale, St. James	...	...	...	...	6.27	Santa Cruz	2.30	0.70	29	8	2.85
Maroon Town, St. Jas.	...	...	...	...	4.67	Pedro Plains	1.98	0.90	28	4	...
Kempshot	13.06	3.19	26	16	5.11	Black River	1.30	0.44	16	9	2.46
Kepp	...	...	...	...	2.84	Spring Hill	2.60	1.30	9	10	...
Kew Park	...	...	...	...	2.75	Font Hill	0.95	0.50	9	3	2.54
Hazelymph	3.10	1.25	24	9	2.48	Peter's Ville	4.90	1.30	9	11	2.56
King Gate	10.13	3.79	26	10	...	Salem	...	...	...	...	...
Darliston	3.01	0.80	5	13	3.22	Mount Edgecombe	4.44	1.94	9	8	2.48
Whithorn	2.18	0.43	29	9	2.93	Bluefields	5.10	1.75	7	19	...
Galloway	...	...	...	...	...	Sweet River	2.50	0.80	9	8	2.61
Lethe Bridge	...	...	...	...	3.98	Cornwall	1.79	0.60	5	6	2.41
New Garth	...	...	...	...	...	Windsor, Sav.-la.-Mar	3.75	1.25	9	8	2.36
Copse	...	...	...	...	3.74	Sav.-la.-Mar P.W.D.	4.30	1.40	7	10	2.43
Cacoon Castle	...	...	...	...	5.48	Retreat	5.07	1.30	31	6	1.88
Great Valley	3.47	2.00	24	7	5.57	Spring Valley	6.57	1.26	19	21	...
Brownsville	2.82	0.60	24	12	...	Negril Point L. H.	4.73	1.18	7	8	...
Fontabelle	4.63	1.11	29	10	3.05						
Morgans Bridge	3.89	1.25	5	11	2.66						
King's Valley	2.03	0.81	11	4	3.37						
Kings Vale Police St.	2.46	0.54	10	6	...						
Means	4.07	...	...	...	3.78	Means	2.45	...	...	...	2.66

* Six years' average.

NOTES.

COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

	DECEMBER.	
	1902.	Average.
	In.	In.
North Eastern Division	14.82	9.91
Northern	11.60	5.72
West Central	4.07	3.78
Southern	2.45	2.66
Means	8.23	5.52

The Rainfall for the whole Island was therefore considerably above the average. The highest rainfall recorded was 47.94 in., at Moore Town in the N. Eastern Division while 0.32 in., fell at New Yarmouth in the Southern Division.

THE RAINFALL OVER THE ISLAND.
From about 125 "average" Stations.

1901.	Rainfall Divisions.				The Island.
	NE	N	WC	S.	
	In.	In.	In.	In.	In.
January	8.26	7.69	4.37	2.39	5.68
February	5.43	3.92	1.92	0.98	3.06
March	5.71	3.19	5.03	3.05	4.24
April	5.21	3.69	8.24	4.48	5.40
May	9.13	4.87	14.84	7.04	8.97
June	14.06	7.18	11.93	7.95	10.28
July	6.16	2.55	3.89	2.19	3.44
August	5.83	2.18	8.43	5.13	5.39
September	5.48	3.78	9.70	4.73	5.89
October	7.41	5.58	10.91	4.87	7.19
November	9.47	2.55	6.42	3.97	5.60
December	14.82	11.60	4.07	2.45	8.23
Total	95.97	58.78	89.75	49.14	73.37

NOVEMBER 1902.

WEATHER REPORT No. 286	Total fall.	Greatest fall in 24 hours.		Days on which 0.01 or more fall.
		Amount.	Date.	
Returns sent up too late for publication in that Report.				
Brokenhurst	7.78	1.68	2	14
Public Works Office	1.72	0.80	2	4
Denbigh	3.20	0.81	3	6

H. H. COUSINS, Island Chemist.